Pipe & Industrial Sheet: Hostalen HDPE and Petrothene HDPE



1/4

TYPICAL PROPERTIES		PHYSICA	AL .	MECHANICAL						L OTHER				
	MFR 190 °C/ 5 kg	MFR 190 °C/ 21.6 kg		Tensile Modulus (sec., v=1mm/ min)	Tensile Stress at Yield (v=50mm/min)	Hardness shore D (3 sec.)	impact	notched strength at -30 °C	Vicat Softening Point (49 N)	OIT (210 °C)	FNCT (4 MPa, 2% Arcopal, 80 °C)	SPECIFIC CHARACTERISTICS	TYPICAL	
Test Method	st Method ISO 1133-1		ISO 1183 A	ISO 527	ISO 527	ISO 868	ISO 179/1eA		ISO ISO 306/B 11357-		ISO 16770	CHARACTERISTICS	APPLICATIONS	
Units	Jnits g/10 min		g/cm ³	MPa	MPa		kJ/m²		°C	min	h			
Product grades – Hostalen														
GM 5010 T3 Black	0.43	9.0	0.957	1050	22	59	24	8	70	30	> 100	PE80 HDPE black color with high impact and stiffness (RAL 9004); pellets	Water, gas, wastewater and industrial pressure pipe systems; pipe lining; spiral wound and corrugated non-pressure pipes	
CRP 100 Black	0.23	6.4	0.959	1100	23	63	26	13	74	30	> 1000	PE100 black color (RAL 9004); excellent processing, good ESCR; pellets	Water, gas, wastewater and industrial pressure pipe systems; pipe lining; spiral wound and corrugated non-pressure pipes	
CRP 100 RESIST CR Black	0.23	6.4	0.958	1100	23	63	26	13	74	30	> 8760	PE100-RC black color; (RAL9004); high ESCR; pellets	Water, gas, wastewater and industrial pressure pipes in challenging applications such as with sandless bedding; no dig installation and pipe lining	
CRP100 Black (XL)	0.23	6.4	0.959	1100	23	63	26	13	74	30	> 1000	PE100 black color (RAL9004), high melt viscosity; low sag; pellets	Larger diameter and thick-walled pressure pipe systems	
CRP 100 RCD Black	0.23	6.4	0.959	1100	23	63	26	13	74	30	> 8760	PE100-RC black color (RAL9004); high resistance to disinfectants and high ESCR; pellets	Drinking water and industrial pipe systems exposed to higher disinfectant concentrations	
CRP 100 RT Black	0.45	9.5	0.957	1050	22	59	24	8	70	40	350	PE100 (ISO 12162:2009) black color (RAL9004), long term hydrostatic strength at raised temperatures; pellets	Power cable conduits and industrial pipe applications at temperatures above 40°C, where long term heat ageing stability is provided by high heat aging stabilisation	
CRP 100 W Blue	0.27	7.6	0.950	1050	23	62	26	13	74	30	> 1000	PE100 dark blue color (similar RAL 5005); good ESCR, pellets	Drinking water pressure pipe systems acc. EN12201 / ISO4427 inc. pipe lining	
CRP 100 RESIST CR W blue	0.27	7.3	0.950	1050	23	63	26	13	74	30	> 8760	PE100-RC dark blue color (similar RAL5005);high ESCR; pellets	Drinking water pressure pipe systems acc. EN12201 / ISO4427 in challenging applications	
CRP 100 RESIST CR Orange	0.27	7.3	0.950	1050	23	62	26	15	74	30	> 8760	PE100-RC orange color (similar RAL1033); high ESCR; pellets	Gas pressure pipe systems acc. EN1555 / ISO4437 in challenging applications	
CRP 100 Orange	0.23	6.4	0.951	1050	23	62	29	15	74	30	> 1000	PE100, orange color (similar RAL1033); good ESCR, pellets	Gas distribution pressure pipe systems acc. EN1555 / ISO4437 inc. pipe lining	
5052 B	0.2 - 0.9	6-20	0.959	1000	20				74	20		HDPE black color (RAL 9004); pellets	Cable conduits and non pressure pipes	
GM 9310 C Black		4.5	1.000	1250	26	66	5	3	83	20		Semiconductive; HDPE black color (RAL 9004); pellets	Pipes and sheets with lower surface resistivity for explosion- proof areas	
Product grades - Petrothe	ene													
KR52828E	1.1	21	0.956	900	23	61				30	40	HDPE, black color, good weather resistance, good heat ageing resistance	Jacketing of wire & cable, pressureless sewage pipes, cable conduits, microducts, extruded sheets, injection molded fittings	
LR52800E	1.1	21	0.950	900	23	61				30	40	HDPE, natural color, good heat ageing resistance	Jacketing of wire & cable, pressureless sewage pipes, cable conduits, microducts, extruded sheets, injection molded fittings	

You can find out more about us by visiting our website at: www.lyondellbasell.com

Before using a product sold by a company of the LyondellBasell family of companies ("LyondellBasell family of companies ("LyondellBasell MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS AGREED TO BY LyondellBasell IN THE PRODUCT SALE CONTRACT.

LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative.

Users should review the applicable Safety Data Sheet before handling the product.

Akoalit, Akoafloor, Hostalen, Lupolen, and Petrothene are trademarks owned and/or used by the LyondellBasell family of companies. They are registered in the U.S. Patent and Trademark Office.

Pipe & Industrial Sheet: Crosslinkable HDPE and PE-RT





TYPICAL PROPERTIES		PHY	SICAL			MECHAN	NICAL		THE	RMAL		TYPICAL APPLICATIONS	
	MFR 190 °C/ 2.16 kg	MFR 190 °C/ 5 kg	MFR 190 °C/ 21.6 kg	Density	Tensile Modulus (sec., v=1mm/ min)	Tensile Stress at Yield (v=50mm/min)	Hardness shore D (3 sec.)	Ball indentation hardness H132/30	Vicat Softening Point (9.8 N)	Vicat Softening Point (49 N)	SPECIFIC CHARACTERISTICS		
Test Method	hod		ISO 1133-1		ISO 527	ISO 527	ISO 868	ISO 2039-1	ISO 306/A	ISO 306/B	GHANAGTENISTIGS	AFFLIGATIONS	
Units		g/10 min		g/cm³	MPa	MPa		MPa	(C			
Product grades - Lupolen													
4261A Q416		0.5	8.5	0.946	850	24	62	40	125	75	x-linkable (Radiation); PE-Xc; HDPE; natural color; pellets	Heating; plumbing; multilayer pipes (EN ISO 15875 / DIN 16892 / EN ISO 21003)	
5261Z Q456			2.0	0.954	1100	27	65	52	132	80	x-linkable (Peroxide); PE-Xa; HDPE; natural color; powder	Heating; plumbing; large bore pipes for gas/water; compression moulded sheets	
5261Z Q456 B			3.0	0.954	1200	27	65	52	132	80	x-linkable (Peroxide); PE-Xa; HDPE; natural color; powder; lower viscosity than 5261Z Q456	Heating; plumbing; multilayer pipes	
5461B Q471		0.5	10.0	0.953	1100	28	64	49	130	79	x-linkable (Peroxide); PE-Xa; HDPE; natural color; powder	Heating; plumbing; multilayer pipes	
5461B Q471 B		0.7	15	0.953	1100	28	64	49	130	79	x-linkable (Peroxide); PE-Xa; HDPE; color: natural; powder; lower viscosity than 5461B Q471	Heating; plumbing; multilayer pipes	
UHM 5000				0.931	800	20	65			82	UHMW-PE with a typical average molar mass of 5 million g/mol; natural color; powder	Compression moulded sheets and ram extruded products	
Product grades – Hostalen													
4731B		0.45	9.5	0.947	850	22	59		128	70	PE-RT Type II; PE 100; natural color; pellets; good processability, extremely high resistance to ageing	Heating; plumbing; multilayer pipes (ISO 24033 / EN ISO 22391 / DIN 16833 / EN ISO 21003)	
4131B		2.2	18	0.941	650	23	58		125	70	PE-RT Type II with higher flexibility; natural color; pellets; good processability, extremely high resistance to ageing	Underfloor heating; plumbing; multilayer pipes (ISO 24033 / EN ISO 22391 / DIN 16833 / EN ISO 21003)	

You can find out more about us by visiting our website at: www.lyondellbasell.com

Before using a product sold by a company of the LyondellBasell family of companies ("LyondellBasell"), users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. LyondellBasell MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS AGREED TO BY LyondellBasell IN THE PRODUCT SALE CONTRACT.

LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative.

Users should review the applicable Safety Data Sheet before handling the product.

Akoalit, Akoafloor, Hostalen, Lupolen, and Petrothene are trademarks owned and/or used by the LyondellBasell family of companies. They are registered in the U.S. Patent and Trademark Office.

Pipe & Industrial Sheet: Hostalen PP

3/4



TYPICAL	PHY	SICAL	MECHANICAL						THERMAL				
PROPERTIES	MFR 230 °C/ 2.16 kg	MFR 230 °C/ 5 kg	Tensile Modulus (sec., v=1mm/ min)	Tensile Stress at Yield (v=50mm/min)	Tensile Strain at Yield (v=50mm/min)		ed Charpy at 0 °C		Vicat Softening Point A	SPECIFIC CHARACTERISTICS	ТҮРЕ	COLOR	TYPICAL APPLICATIONS
Test Method	ISO 1	133-1		ISO 527-2		ı	SO 179/1e	eA	ISO 306/A	CHARACIERISTICS			
Units	g/10) min		MPa	% kJ/m² °C		°C						
Product grades -	PP												
H2150	0.3	1.3	1500	36	11	30	4.3	-	158	High heat and extraction stability	PP-H	natural	Pipes; sheets; rods; fittings; profiles; punching boards; filterplates; blow molded parts
H2150 304850	0.3	1.3	1500	36	10	38	5	-	156	High heat and extraction stability	PP-H	grey (RAL 7032)	Pipes; sheets; rods; fittings; profiles; punching boards; filterplates; blow molded parts
H2450	0.3	1.3	1450	36	11	20	5	-	157	High heat and extraction stability; non-nucleated	PP-H	natural	Pipes; sheets; rods; fittings; profiles; punching boards; filterplates; blow molded parts
H2250 36	0.3	1.3	1500	36	12	26	6	-	157	High heat and extremely high extraction stability	PP-H	grey (RAL 7032)	Press. pipes ; sheets; rods; housings; filterplates; fittings
H7350FLS 303064	0.4	2.0	1500	35	11	18	5	-	158	Flame retardant; not food approved	PP-H	grey (RAL 7037)	House drain-pipes; semifinished products
EPD60R	0.4	1.6	1100	26	15	54	18	3.5	151	Exc. impact strength; long-term heat & detergent resistance	PP-B	natural	Sheets; corrugated hoses; industrial pipes; conduits; profiles
H2464	0.3	1.3	1350	28	13	85	25	5	155	Excellent balance rigidity/impact; dimesional stability	PP-B	natural	Sewage/drainage pipes (EN1852/EN13476) profiles; blown and injection molded parts
H2483	0.3	1.3	1800	32	8	60	15	4.3	159	High stiffness, high impact; dimensional stability;	PP-B	natural	Sewage/drainage pipes (EN1852/EN13476) profiles; blown and injection molded parts
H2493	0.3	1.3	2000	38	8	45	4	2.5	-	Very high stiffness; impact; dimensional stability	PP-B	natural	Sewage/drainage pipes (EN1852/EN13476) profiles; blown and injection molded parts
H1022	0.3	1.3	1300	30	13	50	15	3	159	Basic stabilization; good heat aging resistance	PP-B	natural	Pipes; fittings; sheets; profiles; blow molded parts
H1022 12	0.3	1.3	1400	31	12	117	21	4	158	Basic stabilization; good heat aging resistance	PP-B	black	Pipes; fittings; sheets; profiles; blow molded parts
H2222 36	0.3	1.3	1350	30	12	50	13	5.8	158	High heat stability; extreme extraction stability	PP-B	grey (RAL 7032)	Press. pipes; sheets; profiles; filterplates; fittings
H2142 12	0.3	1.4	1500	34	12	54	5	2	150	High heat stability; weather resistance; low creep	PP-B	black	Mechanical-joint compression fittings (ISO14236); classified by ISO9080 as PP100
H4122 103220	0.3	1.3	1400	30	13	110	20	5.8	159	High heat, weather and extreme extraction stability	PP-B	black	Pipes; solar heat absorbers; corrugated pipes; fittings
XN125-P	0.2	1.1	850	26	12	60	8	-	-	High heat stability; extreme extraction stability;	PP-RCT	natural	Press. pipes (EN IS015874); hot/cold water pipes; sheets and parts in chemical apparatus; classified by IS09080 as PP125/PP-RCT
XN112-I	0.2	1.1	800	24	32	70	9.5	-	-	High heat stability; extreme extraction stability;	PP-RCT	natural	Press. pipes (EN ISO15874); hot/cold water pipes; sheets and parts in chemical apparatus; classified by ISO9080 as PP112/PP-RCT
H5416	0.3	1.3	850	24	13	89	12	-	132	High heat stability; extreme extraction stability; good impact	PP-R	natural	Press. pipes (EN ISO15874); hot/cold water pipes; sheets and parts in chem. apparatus; classified by ISO9080 as PP100

You can find out more about us by visiting our website at: www.lyondellbasell.com

Mechanical properties tested on Injection molded Specimen, molding conditions acc. to ISO 1873-2

Before using a product sold by a company of the LyondellBasell family of companies ("LyondellBasell MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS AGREED TO BY LyondellBasell IN THE PRODUCT SALE CONTRACT.

LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative.

Users should review the applicable Safety Data Sheet before handling the product.

Akoalit, Akoafloor, Hostalen, Lupolen, and Petrothene are trademarks owned and/or used by the LyondellBasell family of companies. They are registered in the U.S. Patent and Trademark Office.

Pipe and Industrial Sheet: Polybutene-1

4/4



TYPICAL PROPERTIES	PHY	SICAL	L MECHANICAL				THERMAL				
	MFR 190 °C/ 2.16 kg	Density	Flexural Modulus	Tensile Stress at Yield	Tensile stress at Break	Tensile strain at Break	Melting Temperature	COLOR	SPECIFIC CHARACTERISTICS	TYPICAL APPLICATIONS	
Test Method	ISO 1133-1	ISO 1183 A	ISO 178		ISO 527		DSC		CHARACTERISTICS	AFFLICATIONS	
Units	g/10min	g/cm³	MPa	MPa	MPa	%	°C				
Product grades											
Akoafloor PB R509 Brown	0.7	0.93	370	15	35	300	124 - 126	Brown	Random copolymer	Underfloor heating pipe	
Akoafloor PB R509	0.7	0.92	370	15	35	300	124 - 125	Natural	Random copolymer	Underfloor heating pipe	
Akoafloor PB 4235-1 Ivory	0.6	0.93	450	17	30	225	127 - 129	Ivory	Homopolymer	Heating water pipe for radiator connections or underfloor heating	
Akoalit PB 4237 Grey	0.4	0.938	450	17	30	200	127 - 129	Grey	Homopolymer	High-performance pipe material for potable hot and cold water distribution applications	
Akoalit PB 4238 White	0.4	0.938	450	17	30	200	127 - 129	White	Homopolymer	High-performance pipe material for potable hot and cold water distribution applications	
Akoalit PB 4267 Grey	0.6	0.925	450	17	30	225	127 - 129	Grey	Homopolymer	High-performance pipe material for potable hot and cold water distribution applications where improved organoleptic properties are required	
Akoalit PB 4268 White	0.6	0.925	450	17	30	225	127 - 129	White	Homopolymer	High-performance pipe material for potable hot and cold water distribution applications where improved organoleptic properties are required	
Akoalit PB DKG 300	2.0	1.325	6000	75	72	4.5	127 - 129	Natural	Homopolymer	Glass fibre reinforced high flow polybutene-1, typically used for fitting applications such as fitting bodies, support rings, etc. in combination with hot and cold potable water pipe installations	

You can find out more about us by visiting our website at: www.lyondellbasell.com

Before using a product sold by a company of the LyondellBasell family of companies ("LyondellBasell"), users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. LyondellBasell MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS AGREED TO BY LyondellBasell IN THE PRODUCT SALE CONTRACT.

LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative.

Users should review the applicable Safety Data Sheet before handling the product.

Akoalit, Akoafloor, Hostalen, Lupolen, and Petrothene are trademarks owned and/or used by the LyondellBasell family of companies. They are registered in the U.S. Patent and Trademark Office.

Date of issue: August 2022 // 5051/22/08