Polyethylene (PE)

For Plastic Fuel Tank Systems / SCR Reservoir Systems

lyondellbasell
Advancing Possible

PROPERTIES	PHYSICAL			MECHANICAL				OTHERS			CONVERSION			SPECIFIC CHARACTERISTICS	TYPICAL CUSTOMER APPLICATIONS
	Density	MFR 190°C, 2,16kg	MFR 190°C, 2,16kg	Tensile Modulus	Tensile Stress at Yield	Tensile Elongation	Tensile impact strength notched -30°C	ESCR (FNCT: 3.5 MPa, 80°C, 2% Igepal BC/9)	ESCR (FNCT: 6.0 MPa, 50°C, 2% Arkopal N100)	Delivery Form	BM	TF	IM		
Test Method	ISO 1183	ISO 1133		ISO 527			ISO 8256/1A	ISO 16770						*Lupolen* grades exhibit very good Environmental Stress Crack Resistance (ESCR), good chemical resistance in combination with very good cold impact resistance	
Units	g/cm³	g/10 min		MPa	MPa	%	kJ/m²	°C							
DENSITY POLYETHYLENE (HDPE)															
Lupolen 4261 AG	0.945	6	-	900	24	10	170	80	-	Pellet	X	X		Benchmark HDPE grade for blow molded for thermoformed fuel tank systems	Blow molded mono- or multi-layer fuel tanks; Thermoformed mono- or multi-layer fuel tanks; Blow molded SCR reservoirs
Lupolen 4261 AG BD	0.945	6	-	900	24	10	170	80	-	Pellet	X	X		'Biodiesel' version of *Lupolen* 4261 AG with improved resistance against harmful effects of biodiesel and dirty fuels (gasoline containing peroxides); the product offers as well a higher efficiency for off-line fluorination and a significant higher UV resistance	Blow molded mono- or multi-layer fuel tanks; Thermoformed mono- or multi-layer fuel tanks; Blow molded SCR reservoirs for trucks when exposed to sunlight
Lupolen 4261 A Q135	0.945	6	-	900	24	10	170	80	-	Pellet	X			*Lupolen* 4261 A Q135 is a powder grade for fuel tank systems. The grade could be mixed with regrind to increase the throughput effectively	Blow molded mono-layer fuel tanks
Lupolen 4261 A IM	0.940	15	-	800	21	10	140	35	-	Pellet			X	*Lupolen* 4261 A IM is based on Lupolen 4261 AG polymer chemistry and exhibits higher fluidity	Injection molded fuel tank components
Lupolen 4261 A IM BD	0.940	15	-	800	21	10	140	35	-	Pellet			X	'Biodiesel' version of *Lupolen* 4261 A IM with improved resistance against harmful effects of biodiesel and dirty fuels (gasoline containing peroxides); the product offers as well higher efficiency for off-line fluorination and significantly higher UV resistance	Injection molded fuel tank components
Lupolen GX 5038	0.945	-	2	900	22	10	100	-	35	Pellet			X	Benchmark grade for injection molded SCR reservoirs	Injection molded SCR reservoirs; Components for SCR reservoirs and fuel tanks
Hostalen GM9350C Black	0.995	3	-	1,200	28	7	45	90	-	Pellet	X		X	*Hostalen* GM9350C Black is a compound based on *Lupolen* 4261 AG polymer chemistry comprising electrically conductive properties	Filler pipes for fuel tank systems
Lupolen 4261 A SW63200	1.05	4	-	-	-	-	-	-	-	Pellet	X	X	X	*Lupolen* 4261 A SW63200 is a black masterbatch based on *Lupolen* 4261 AG polymer chemistry with enhanced UV protection	Masterbatch for blow molded mono- or multi-layer fuel tanks; Masterbatch for blow molded SCR reservoirs

ESCR = Environmental Stress Crack Resistance; FNCT = Full Notch Creep Test; BM = Blow Molding; TF = Thermoforming; IM = Injection Molding; SCR = Selective Catalytic Reduction

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Test Method	ISO 1183	ISO 1133		ISO 527			ISO 8256/1A	ISO 16770			
Units	g/cm³	g/10 min		MPa	MPa	%	kJ/m²	h			
MEDIUM DENSITY POLYETHYLENE (MDPE)											
Lupolen 3621 M RM	0.9355	7.5	2.0	700	17	10	145	15	Pellet	*Lupolen* 3621 M RM offers high fluidity and high impact strength	Rotational molded fuel tanks Rotational molded SCR reservoirs
Lupolen 4021 K RM	0.9355	4.0	2.0	750	19	9	120	50	Pellet	*Lupolen* 4021 K RM offers high Environmental Stress Crack Resistance (ESCR) and high stiffness	Rotational molded fuel tanks Rotational molded SCR reservoirs

ESCR = Environmental Stress Crack Resistance; FNCT = Full Notch Creep Test; SCR = Selective Catalytic Reduction