

PRODUCT SELECTION GUIDE

Polyolefin Compounds for Wire and Cable

Key Properties and Applications



Polyolefin Compounds for Wire and Cable

Product	Typical Customer Application	Melt Index (g/10 min.)	Density (g/cm ³)
Low Density Polyethylene			
<i>Petrothene</i> NA942000	Natural insulation and jacket base resin	0.18	0.918
<i>Petrothene</i> NA520024	Stabilized solid insulation	0.25	0.918
<i>Petrothene</i> NA951080	Solid and foamed insulation; base resin in direct peroxide injection applications	2.2	0.920
<i>Petrothene</i> NA217080	Gas injection blending component used in RF coax insulation	5.6	0.923
<i>Petrothene</i> NA204090	Gas injection blending component used in RF coax insulation; base for nucleator concentrate	7	0.918
<i>Petrothene</i> NA202000	Cable components and accessories	22	0.915
<i>Petrothene</i> NA270001	Cable components and accessories	70	0.915
Linear Low Density and Medium Density Polyethylene			
<i>Petrothene</i> GA808091	LLDPE natural insulation or jacket base resin	0.75	0.920
<i>Petrothene</i> PR92735	LLDPE black jacket	0.72	0.930
<i>Petrothene</i> GA808093	LLDPE natural insulation or jacket base resin with metal deactivator	0.75	0.920
<i>Petrothene</i> GA837091	MDPE natural insulation or jacket base resin	0.75	0.935
<i>Petrothene</i> HR92953	MDPE black jacket	0.75	0.945
<i>Petrothene</i> GA616050	LLDPE natural base resin	7	0.918
<i>Petrothene</i> GA564189	LLDPE natural base resin	21	0.924
High Density Polyethylene			
<i>Alathon</i> 9305TC	Bimodal HDPE for conduit, insulation or jacket	0.08	0.949
<i>Petrothene</i> LP540200	Natural insulation or jacket base resin	0.17	0.940
<i>Petrothene</i> KR92828	Black jacket, conduit or insulation	0.17	0.955
<i>Petrothene</i> KR52828E	Black jacket, conduit or insulation	0.3	0.956
<i>Petrothene</i> KR92717	Black jacket and insulation	0.7	0.948
<i>Petrothene</i> LR590005	Natural insulation or jacket base resin with metal deactivator	0.8	0.948
<i>Petrothene</i> LR590001	Natural insulation or buffer tube base resin; used in communication cables where pedestal test is required	0.8	0.948
<i>Petrothene</i> LR686001	Chemical foamed insulation; used in communication cables where pedestal test is required	0.8	0.948
<i>Alathon</i> M5370WC	Gas injection blending component used in RF coax insulation	7.3	0.953
<i>Alathon</i> M6080WC	Gas injection blending component used in RF coax insulation	8	0.960
Black Masterbatch			
<i>Petrothene</i> PM92973	LLDPE black masterbatch (40%)	6.8 (HLMI)	1.140

Please Note: Products listed represent only a portion of the products selected for wire and cable. For a complete listing, please visit our website or email wireandcable@lyondellbasell.com.

Product	Typical Customer Application	Melt Index (g/10 min.)	Density (g/cm ³)
Ethylene Vinyl Acetate (EVA)			
<i>Petrothene</i> NA362005	Natural insulation and jacket base resin	0.5	6.6% VA
<i>Petrothene</i> YR92866	Black jacket compound with higher flexibility	0.48	0.940
<i>Ultrathene</i> UE635000	Natural insulation and jacket base resin	10 (EMI)	9% VA
<i>Ultrathene</i> UE672006	Natural insulation and jacket base resin	0.45	13.5% VA
<i>Ultrathene</i> UE624000	Natural insulation and jacket base resin	2.1 (EMI)	18% VA
<i>Petrothene</i> YR92126	Black thermoplastic semiconductive shield and jacket compound	7.7	1.130
Polypropylene			
<i>Petrothene</i> PP1510PC	Natural insulation or jacket base resin	1.3	0.902
<i>Pro-Fax</i> EP315J	Natural insulation or jacket base resin with metal deactivator	2.6	0.900
<i>Petrothene</i> PP1711	Low-shrinkage compound used in fiber optic cable	5.8	0.910
125°C Flame Retardant			
<i>Petrothene</i> XL07425	Nonhalogenated insulation used in automotive and appliance; crosslinkable via continuous vulcanization (C.V.)	2.1(EMI)	1.400
<i>Petrothene</i> XL07420B	Nonhalogenated insulation used in thin-wall automotive; C.V. crosslinkable	2.1(EMI)	1.400
<i>Petrothene</i> YR19548	Nonhalogenated insulation used in automotive; e-beam crosslinkable	2.1(EMI)	1.400
<i>Petrothene</i> YR19513	Nonhalogenated striping compound; no cure	2.1(EMI)	1.400
<i>Petrothene</i> YR20108N	Nonhalogenated insulation used in needle-abrasion-resistant automotive; e-beam crosslinkable	0.35	1.290
Flame Retardant, RoHS Compliant			
<i>Aquathene</i> FR409800	HDPE riser and plenum cable insulation; U.L. CMP-listed component	0.7	1.470
<i>Petrothene</i> FR200000	PP plenum cable insulation; U.L. CMP-listed component	2.0	1.220
<i>Petrothene</i> FR5112	PP nonhalogenated, colorable compound; VW-1	0.30	1.590
Moisture Cure			
<i>Aquathene</i> moisture crosslinkable systems offer:			
– Building, industrial, submersible pump, airport lighting, ruggedized and photovoltaic cable applications			
– UL Listings include SIS, RHW-2, XHHW-2, VW-1, cable tray use, USE-2, etc.			
– CSA certifications include R90, RWU90, -40°C, FT1, FT2			
– Track resistance (ICEA T-27-581)			
<i>Aquathene</i> AQ120000	EVS copolymer natural base resin	1.5	0.923
<i>Aquathene</i> CM04483	Catalyst masterbatch	13.0	0.936
<i>Aquathene</i> FR409800	RoHS-compliant, colorable FR masterbatch; XHHW-2	0.7	1.470
<i>Aquathene</i> FR420000	RoHS-compliant, colorable FR masterbatch; VW-1, sunlight-resistant	2.80	2.040
<i>Aquathene</i> PM92949C	Black masterbatch (40%)	NA	1.140
Broad range of PE resins	Abuse resistance and Monosil crosslinking	0.35 to 8.2	0.92 to 0.965

LyondellBasell Wire and Cable Products

With more than 40 years' experience in wire & cable, LyondellBasell offers global support with dedicated R&D facilities, technical service, exceptional customer service and a strong commitment to the industry with new and innovative materials. Customers select from our broad range of products for the proven performance they offer in automotive/appliance, communication and power cable applications.

For more information about our wire and cable products, snap a picture of the QR code below with your smart phone, and you'll go directly to the LyondellBasell wire and cable products page. You can download phone scanning software at http://www.qrstuff.com/qr_phone_software.html. Take the picture directly on the QR code.



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

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About LyondellBasell

LyondellBasell (NYSE: LYB) is one of the world's largest plastics, chemical and refining companies. We are the largest producer of polypropylene and polypropylene compounds; a leading producer of propylene oxide, polyethylene, ethylene and propylene; a global leader in polyolefins technology; and a producer of refined products, including biofuels.

LyondellBasell products and technologies are used to make items that improve the quality of life for people around the world including packaging, electronics, automotive components, home furnishings, construction materials and biofuels.

