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Polyolefin Compounds for Wire and Cable

Key Properties and Applications

Polyolefin Compounds for Wire and Cable

Product	Typical Customer Application	Melt Flow (g/10 min.)	Density (g/cm ³)
Low Density Polyethylene			
<i>Petrothene</i> NA940000	Natural insulation and jacket base resin	0.25	0.918
<i>Lupolen</i> 1840D*	Natural insulation or jacket base resin	0.25	0.919
<i>Lupolen</i> GX 4087*	Solid and foamed insulation; base resin in direct peroxide injection applications	1.9	0.924
<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	Cable components and accessories	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
Ethylene Vinyl Acetate (EVA)			
<i>Ultrathene</i> UE672006	Natural insulation and jacket base resin	0.45	13.5% VA
<i>Petrothene</i> NA362005	Natural insulation and jacket base resin	0.5	6.6% 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
Ethylene Butyl Acrylate (EBA)			
<i>Lucalen</i> A2700H*	Natural insulation or jacket base resin	1.4	15% nBA
<i>Lucalen</i> A2700M*	Natural base resin for semiconductive shields and HFFR insulations	7.2	17% nBA
<i>Lucalen</i> A2700P*	Natural base resin for semiconductive shields and HFFR insulations	15	17% nBA
Ethylene t-Butyl Acrylate Acrylic Acid (E/tBA/AA)			
<i>Lucalen</i> A2920M*	Adhesive resin for the bonding of aluminium/copper and polyethylene	7	7% tBA + 4% AA
Linear Low Density and Medium Density Polyethylene			
<i>Petrothene</i> GA808091	LLDPE natural insulation and 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 and jacket base resin with metal deactivator	0.75	0.920
<i>Petrothene</i> GA837091	MDPE natural insulation and 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
Black Masterbatch			
<i>Petrothene</i> PM92973	LLDPE black masterbatch (40%)	6.8 (HLMl)	1.140

Note: Products listed represent only a portion of the products selected for wire and cable. Products with an * are produced in Europe and those with ** are produced in both Europe and the U.S. All other products are produced in the U.S.

For a complete listing, visit our website at www.lyb.com/wireandcable

Product	Typical Customer Application	Melt Flow (g/10 min.)	Density (g/cm ³)
High Density Polyethylene			
Numerous broad and bi-modal HDPE natural and black compounds	Conduit	0.06 to 0.4	0.94 to 0.95
<i>Petrothene</i> KR92828	Black jacket and insulation	0.17	0.955
<i>Petrothene</i> KR52828E*	Black jacket and insulation	0.3	0.956
<i>Petrothene</i> LR52800E*	Natural insulation or jacket base resin	0.3	0.950
<i>Petrothene</i> KR92717	Black jacket and insulation	0.7	0.948
<i>Petrothene</i> LR590005	Natural insulation and jacket base resin with metal deactivator	0.8	0.948
<i>Petrothene</i> LR590001	Natural insulation and 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> M5370RF	Gas injection blending component used in RF coax insulation	7.3	0.953
Polypropylene			
<i>Catalloy</i> **	Broad range of <i>Adflex</i> , <i>Hifax</i> and <i>Softell</i> Thermoplastic Polyolefins for various power and communication cables	0.6 to 30	0.880 to 0.900
<i>Petrothene</i> PP1510PC	Natural insulation and jacket base resin	1.3	0.902
<i>Moplen</i> RP210G*	Random copolymer used as natural insulation in power cables	1.8	0.900
<i>Moplen</i> HP501H*	Polypropylene homopolymer used as natural insulation in communication cables	2.1	0.900
<i>Pro-Fax</i> EP315J	Natural insulation and jacket base resin with metal deactivator	2.6	0.902
125°C Flame Retardant			
<i>Petrothene</i> XL07420B	Thin-wall automotive crosslinkable via continuous vulcanization (C.V.)	N/A	1.400
<i>Petrothene</i> XL07425	Automotive and appliance wire insulation, C.V. crosslinkable	N/A	1.400
<i>Petrothene</i> YR19600B	Thin-wall automotive crosslinkable via radiation e-beam	N/A	1.400
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, FT4, cable tray use, USE-2.			
– CSA certifications include R90, RWU90, -40°C, FT1, FT2			
– Track resistance (ICEA T-27-581)			
<i>Aquathene</i> FR409800	RoHS-compliant, colorable FR masterbatch; XHHW-2	0.7	1.470
<i>Aquathene</i> FR439800	RoHS-compliant, colorable FR-catalyst masterbatch; XHHW-2	0.7	1.470
<i>Aquathene</i> AQ120000	EVS copolymer natural base resin	1.5	0.923
<i>Aquathene</i> FR420000	RoHS-compliant, colorable FR-catalyst masterbatch; XHHW-2, VW-1, FT-4 and sunlight-resistant	2.80	2.040
<i>Aquathene</i> CM04483	Catalyst masterbatch	13.0	0.936
<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

ABOUT US

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by its 13,400 employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, and improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road. LyondellBasell sells products into approximately 100 countries and is the world's largest licensor of polyolefin technologies. In 2018, LyondellBasell was named to Fortune Magazine's list of the "World's Most Admired Companies."

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