

Polyolefin Compounds for Wire and Cable

Key Properties and Applications

GA808091

Features and Benefits

- Best-in-class LLDPE jacket for medium voltage jacketing – underground and aerial
- Broad molecular weight distribution
- Excellent processability
- Available in natural
- Black masterbatch also available for blending at extruder
- PR92735 is black compounded version
- Antioxidant package to ensure thermal stabilization package included for processing and long-term aging protection

PP1510PC / EP315J

Features and Benefits

- Best-in-class PP jacketing and insulation grades
- Outstanding electrical properties – low dielectric constant and dissipation factor
- Excellent processability for wire and cable applications
- Antioxidants to ensure thermal stability to provide excellent long-term aging properties
- Includes metal deactivator for enhanced long-term aging performance

LR590005 / LR590001

Features and Benefits

- Primary HDPE primary insulation for electronic cables
- Excellent electrical performance – low dielectric constant and dissipation factor
- Thermal stabilization package included for processing and long-term aging protection
- Includes metal deactivator for enhanced long-term aging performance
- LR590001 contains enhanced stabilization package for Telecommunications applications
- Low shrink-back after extrusion



About Us

We are **LyondellBasell (LYB)** – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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Product	Typical Customer Application	Melt Flow (g/10 min.)	Density (g/cm ³)
Low Density Polyethylene			
Petrothene NA951080	Solid and foamed insulation; base resin in direct peroxide injection applications	2.2	0.920
Petrothene NA217080	Gas injection blending component used in RF coax insulation	5.6	0.923
Linear Low Density and Medium Density Polyethylene			
Petrothene GA808091	LLDPE natural insulation and jacket base resin	0.75	0.920
Petrothene PR92735	LLDPE black jacket	0.72	0.930
Petrothene GA837091	MDPE natural insulation and jacket base resin	0.75	0.935
Petrothene GA616050	LLDPE natural base resin	7	0.918
Black Masterbatch			
Petrothene PM92973	LLDPE black masterbatch (40%) with good thermal stability	6.8 (HLMI)	1.140
High Density Polyethylene			
Petrothene LR590005	Natural insulation and jacket base resin with metal deactivator	0.8	0.948
Petrothene LR590001	Natural insulation and buffer tube base resin; used in communication cables where pedestal test is required	0.8	0.948
Polypropylene			
Petrothene PP1510PC	Natural insulation and jacket base resin	1.3	0.902
Pro-Fax EP315J	Natural insulation and jacket base resin with metal deactivator	2.6	0.902
125C Flame Retardant XLPE			
Petrothene T3XL7420	Thin-wall automotive crosslinkable via continuous vulcanization (C.V.)	N/A	1.400
Petrothene YR19600B	Thin-wall automotive crosslinkable via radiation e-beam	N/A	1.400
Moisture Cure XLPE			
Range of UL Listings and CSA Certifications Flame retardant, catalyst, and black masterbatches available			
Aquathene AQ120000	EVS copolymer natural base resin	N/A	N/A

Note: Products listed represent only a portion of the products selected for wire and cable. For a complete listing, visit our website at www.lyb.com/wireandcable