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Petrothene

PP1510PC

lyondellbasell

Polypropylene Impact Copolymer
Wire and Cable Grade
Melt Flow Rate 1.3 Density 0.902

Applications

Petrothene PP1510PC is designed for use as primary insulation or a jacketing base resin for wire and cable applications. PP1510PC contains antioxidants to help ensure thermal stability during processing and to provide excellent long-term aging properties. It also contains a metal deactivator to prevent degradation while the cable is in service.

Processing Techniques

PP1510PC, like other thermoplastic polyolefin resins, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for PP1510PC. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions such as extruder type and size have an effect on the processing of thermoplastic resins. For exact recommendations, contact your Equistar sales or technical service representative.

Suggested
General
Extrustion
Conditions

 Extruder Zone
 Temperature Range
 Extruder Zone
 Temperature Range

 Feed
 435° - 465°F (224° - 241°C)
 Zone 4-X
 365° - 385°F (185° - 196°C)

 Zone 2
 430° - 460°F (221° - 239°C)
 Adapter
 400° - 425°F (204° - 218°C)

 Zone 3
 390° - 410°F (200° - 210°C)
 Die
 420° - 460°F (216° - 238°C)

Industry Specifications

PP1510PC meets the requirements of the following: ASTM D 4101, Group 03, Class 4, Grade 8, PP0348B44803EO, Federal LP 394C, Type IV, Grade B.

Typical Properties

Nominal		ASTM
Value	Units	Test Method
1.3	g/10 min.	D 1238
0.902	g/cc	D 1505
4,150 (28.6)	psi (MPa)	D 638
3,200 (22.1)	psi (MPa)	D 638
600	%	D 638
155,000 (1069)	psi (Mpa)	D 790
<-25	°C	D 746
0 Failures @ 7 days		D 1693
2.27		D 1531
0.0004		D 1531
2 x 10 ¹⁷	ohm-cm	D 257
	Value 1.3 0.902 4,150 (28.6) 3,200 (22.1) 600 155,000 (1069) <-25 0 Failures @ 7 days 2.27 0.0004	Value Units 1.3 g/10 min. 0.902 g/cc 4,150 (28.6) psi (MPa) 3,200 (22.1) psi (MPa) 600 % 155,000 (1069) psi (Mpa) <-25

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