

LyondellBasell Montell SE191 Polypropylene Impact Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Key Features: excellent electrical and physical properties, excellent resistance to environmental and thermal stress-cracking, low density and low dielectric constant contribute to light and smaller cables, tailored for high speed processing on thin-walled constructions.

Applications: telephone singles general primary insulation.

Description: Pro-fax SE191 low melt flow, electrical grade polypropylene copolymer resin has outstanding toughness, flex-life and abrasion resistance. This resin demonstrates good processing behavior and is tailored for trouble-free production of primary cable insulation, especially filled telephone cable because its unique stabilizer system resists extraction by petroleum-jelly based filling compounds. This resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for all food contact, including cooking applications. All ingredients meet the chemical registration requirements of TSCA and DSL. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Montell-SE191-Polypropylene-Impact-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792B
Environmental Stress Crack Resistance	>= 200 hour	>= 200 hour	ASTM D1693
Melt Flow	2.7 g/10 min @Load 2.16 kg, Temperature 230 °C	2.7 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Flexural Modulus	1.00 GPa	145 ksi	1% secant at 0.05 in/min; ASTM D790A
Impact Test	>= 60.0 J @Temperature -29.0 °C	>= 44.3 ft-lb @Temperature -20.2 °F	Montell drop weight impact strength

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.25 @Frequency 100000 Hz	2.25 @Frequency 100000 Hz	
	2.25	2.25	

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00030	0.00030	ASTM D1531
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.00030	0.00030	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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