

Pro-fax EP315J

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Pro-fax EP315J 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 base filling compounds.

Because of its ease of processing and resultant low operating pressures, Pro-fax EP315J resin keeps wire draw to a minimum and consequently has been the preferred resin for 24 and 26 AWG wire.

Typical applications include telephone singles and general primary insulation.

For regulatory compliance information see Pro-fax EP315J Product Stewardship Bulletin (PSB).

General Information			
Features	Good Abrasion Resistance		
	Good Electrical Properties		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	Impact Copolymer		
	Low Density		
	Low Flow		
	Ultra High Toughness		
Uses	Communication Wire Insulation		
	Telephone Drop Wire Insulation		
	Wire & Cable Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.6	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.0	MPa	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant ²	1040	MPa	ASTM D790A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-30.0	°C	ASTM D746
Oxidation Induction Time (200°C)	> 20	min	ASTM D3895
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Constant			ASTM D150
100 kHz	2.25		
1 MHz	2.25		

Dissipation Factor		ASTM D150
100 kHz	3.0E-4	
1 MHz	3.0E-4	
NOTE		
1.	50 mm/min	
2.	1.3 mm/min	

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