

LyondellBasell Astryn BA45H Polypropylene Copolymer, Flame Retardant

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Key Features: medium melt flow, medium modulus, flame retardant polypropylene copolymer, UL 94 V-2 flames, good electrical properties and insulating characteristics, good aesthetics and colorability, good processability
Applications: battery cases and chargers, furniture, small appliances
Description: Astryn BA45H conventional melt flow, UL 94 V-2 flame retardant polypropylene copolymer has an excellent combination of properties and processability. It was designed for application which require flame and heat resistance, along with good electrical properties, high impact strength and good surface quality.
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-Astryn-BA45H-Polypropylene-Copolymer-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792B
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	Tool, Montell
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	84	84	ASTM D785
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	1% secant at 0.05 in/min; ASTM D790A
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256A
Gardner Impact	28.0 J	20.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648
UL RTI, Mechanical with Impact	115 °C @Thickness 3.00 mm	239 °F @Thickness 0.118 in	ASTM UL94
Flammability, UL94	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	8.90e+16 ohm-cm	8.90e+16 ohm-cm	ASTM D257
Dielectric Strength	27.1 kV/mm	688 kV/in	ASTM D149
Arc Resistance	133 sec	133 sec	ASTM D495

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