

LyondellBasell Hifax,ç CA45 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

Material Notes:

Key Features: medium melt flow, medium modulus thermoplastic elastomeric olefin resin, excellent balance of properties, excellent processability, good colorability, excellent surface appearance
Applications: molded-in color automotive bumper fascias and step pads, air deflectors, appliques
Description: Hifax CA45 medium melt flow, reactor grade thermoplastic elastomeric olefin resin has a very good balance of properties and excellent moldability. It was designed primarily for molded-in color automotive exterior components and is based on material from Montell's Spheripol process. 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-Hifax-CA45-Thermoplastic-Olefin-Resin.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	Tool, Montell
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 230 °C	9.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Ultimate	8.00 MPa	1160 psi	ISO R527-1
Tensile Strength, Yield	17.0 MPa	2470 psi	ISO R527-1
Elongation at Break	500 %	500 %	ISO R527-1
Elongation at Yield	16 %	16 %	ISO R527-1
Flexural Modulus	0.820 GPa	119 ksi	ISO 178
Izod Impact, Notched	0.700 J/cm @Temperature -40.0 °C	1.31 ft-lb/in @Temperature -40.0 °F	ISO 180
Impact Test	25.0 J @Temperature -30.0 °C	18.4 ft-lb @Temperature -22.0 °F	MAI, E at Max Load, Ductile; ISO 6603-2

Thermal Properties	Metric	English	Comments
	100 µm/m-°C	55.6 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature -30.0 - 30.0 Â°C	English @ Temperature -22.0 - 86.0 Â°F	ASTM D696 Comments
Deflection Temperature at 0.46 MPa (66 psi)	63.0 Â°C	145 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	43.0 Â°C	109 Â°F	ISO 75

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