

LyondellBasell Hifax,ç CA187 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

Material Notes:

Key Features: medium melt flow, medium modulus, paintable thermoplastic elastomeric olefin resin, excellent paintability, excellent surface appearance, good impact and stiffness balance
Applications: painted automotive bumper fascias
Description: Hifax CA187 medium melt flow, paintable thermoplastic elastomeric olefin resin has an excellent combination of processability and painability. It was designed primarily for painted automotive bumper fascia applications. 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-CA187-Thermoplastic-Olefin-Resin.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 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	68	68	ISO 868
Tensile Strength, Ultimate	17.0 MPa	2470 psi	ISO R527-1
Tensile Strength, Yield	19.0 MPa	2760 psi	ISO R527-1
Elongation at Break	450 %	450 %	ISO R527-1
Elongation at Yield	11 %	11 %	ISO R527-1
Flexural Modulus	0.830 GPa	120 ksi	ISO 178
Izod Impact, Notched	0.220 J/cm @Temperature -40.0 °C	0.412 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	MAII, E at Max Load, Ductile; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C @Temperature -30.0 -	55.6 µin/in-°F @Temperature -22.0 -	ASTM D696

Thermal Properties	100 °C Metric	212 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75

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