

LyondellBasell Hifax[®],ç CB229 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

Material Notes:

Key Features: medium high melt flow, medium high modulus, paintable thermoplastic elastomeric olefin resin, excellent impact and stiffness balance, good dimensional stability, excellent processability, good paintability
Applications: automotive claddings and rocker panels, end caps, appliques
Description: Hifax CB229 medium melt flow, mineral-filled thermoplastic elastomeric olefin resin has an excellent combination of flow, stiffness, paintability and dynamic impact characteristics. It was designed primarily for automotive exterior ornamentation 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-CB229-Thermoplastic-Olefin-Resin.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Tool, Montell
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 230 °C	11 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	17.0 MPa	2470 psi	ISO R527-1
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO R527-1
Elongation at Break	>= 500 %	>= 500 %	ISO R527-1
Elongation at Yield	10 %	10 %	ISO R527-1
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ISO 180
Impact Test	24.0 J @Temperature -30.0 °C	17.7 ft-lb @Temperature -22.0 °F	MAII, E at Max Load, Ductile; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	66.0 µm/m-°C @Temperature -30.0 - 100 °C	36.7 µin/in-°F @Temperature -22.0 - 212 °F	ASTM D696
Deflection Temperature at 0.46 MPa	85.0 °C	185 °F	

(56 psi) Thermal Properties	Metric	English	ISO 75 Comments
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	ISO 75

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