

LyondellBasell Hifax™ ETA-3183EN Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

Material Notes:

Key Features: medium melt flow, medium high modulus, paintable thermoplastic olefin resin, excellent impact and stiffness balance, good dimensional stability, good paintability, good processability

Applications: automotive claddings and rocker panels, appliques, filler panels

Description: Hifax ETA-3183EN medium melt flow, paintable, mineral-filled thermoplastic olefin resin has an excellent balance of stiffness, impact resistance, dimensional stability and processability. It was designed to accommodate a variety of automotive exterior ornamentation components. 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-ETA-3183EN-Thermoplastic-Olefin-Resin.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Tool, Montell
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
Flexural Modulus	1.20 GPa	174 ksi	Tangent at 0.05 in/min; ASTM D790A
Impact Test	23.0 J @Temperature -30.0 °C	17.0 ft-lb @Temperature -22.0 °F	Dynatup Impact, E at Max Load, Ductile; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C @Temperature -30.0 - 30.0 °C	38.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696

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