

LyondellBasell Hifax™ ETA-3131 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

Material Notes:

Key Features: medium melt flow, medium modulus thermoplastic olefin resin, excellent impact and stiffness balance, excellent processability
Applications: automotive filler and valance panels, lower air dams, stowage containers
Description: Hifax ETA-3131 medium melt flow, thermoplastic olefin resin has an excellent combination of stiffness, low temperature impact resistnace and processability. It was primarily designed for various automotive utility 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-ETA-3131-Thermoplastic-Olefin-Resin.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	Tool, Montell
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	36	36	ASTM D785
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength, Yield	17.0 MPa	2470 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Flexural Modulus	0.690 GPa	100 ksi	Tangent at 0.05 in/min; ASTM D790A
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	ASTM D256A
Gardner Impact	32.0 J @Temperature -30.0 °C	23.6 ft-lb @Temperature -22.0 °F	ASTM D3029
Impact Test	29.0 J @Temperature -30.0 °C	21.4 ft-lb @Temperature -22.0 °F	Dynatup Impact, E at Max Load, Ductile; ASTM D3763
Tear Strength	100 kN/m	571 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM D648

Thermal Properties <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	Metric	English	Comments
Brittleness Temperature	-45.0 °C	-49.0 °F	ASTM D746

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