

## LyondellBasell Hifax™ ETA-3163 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

### Material Notes:

**Key Features:** medium melt flow, medium high modulus, paintable thermoplastic elastomeric olefin resin, excellent impact and stiffness balance, good dimensional stability, good paintability, good processability  
**Applications:** automotive claddings and rocker panels, grilles, appliques  
**Description:** Hifax ETA-3163 medium melt flow, paintable, mineral-filled thermoplastic elastomeric olefin resin has an excellent balance of stiffness, low temperature impact resistance and dimensional stability. It was designed specifically for use in various 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-ETA-3163-Thermoplastic-Olefin-Resin.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-ETA-3163-Thermoplastic-Olefin-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Tool, Montell
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	40	40	ISO 2039-2
Hardness, Shore D	64	64	ISO 686
Tensile Strength, Ultimate	14.0 MPa	2030 psi	ISO R527-1
Tensile Strength, Yield	17.0 MPa	2470 psi	ISO R527-1
Elongation at Break	350 %	350 %	ISO R527-1
Elongation at Yield	7.0 %	7.0 %	ISO R527-1
Flexural Modulus	1.00 GPa	145 ksi	ISO 178
Izod Impact, Notched	0.660 J/cm @Temperature -40.0 °C	1.24 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
Deflection Temperature at 0.46 MPa	75.0 °C	167 °F	ISO 75

(55 psi) Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	ISO 75

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