

## LyondellBasell Hifax,ç CB189FC Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

### Material Notes:

**Key Features:** medium melt flow, medium high modulus, precolored thermoplastic olefin resin, good impact and stiffness balance, good dimensional stability, good processability, low fogging  
**Applications:** automotive instrument panel components, knee bolsters and end caps, glove box doors  
**Description:** Hifax CB189FC medium melt flow, minearl-filled thermoplastic olefin resin has a very good balance of impact, stiffness, dimensional stability and processability. It was designed specifically for use in various automotive interior trim 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-CB189FC-Thermoplastic-Olefin-Resin.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CB189FC-Thermoplastic-Olefin-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 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	65	65	ASTM D2240
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Modulus	1.20 GPa	174 ksi	1% secant at 0.05 in/min; ASTM D790A
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256A
Gardner Impact	25.0 J	18.4 ft-lb	ASTM D3029
	19.0 J @Temperature -30.0 °C	14.0 ft-lb @Temperature -22.0 °F	ASTM D3029
Impact Test	15.0 J @Temperature -30.0 °C	11.1 ft-lb @Temperature -22.0 °F	Dynatup Impact, E at Max Load, Ductile; ASTM D3763

Thermal Properties	Metric	English	Comments
	60.0 µm/m-°C	33.3 µin/in-°F	

CTE linear Thermal Properties	@Temperature -30.0 - Metric 30.0 Â°C	@Temperature -22.0 - English 58.0 Â°F	ASTM D696 Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.0 Â°C	180 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	48.0 Â°C	118 Â°F	ASTM D648

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