

## LyondellBasell Hifax™ CA186 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

### Material Notes:

**Key Features:** medium melt flow, medium modulus, paintable thermoplastic elastomeric olefin resin, excellent impact and stiffness balance, excellent paintability and paint durability, good processability, colorable

**Applications:** fully painted and selectively decorated automotive bumper fascias, molded-color exterior components

**Description:** Hifax CA186 medium melt flow, reactor grade thermoplastic elastomeric olefin resin has an excellent balance of impact, stiffness and apintability. It is based on material produced from Montell's proprietary Catalloy process and was designed primarily for painted automotive bumper fascias that require high durability. 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-CA186-Thermoplastic-Olefin-Resin.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CA186-Thermoplastic-Olefin-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.012 cm/cm	0.012 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	59	59	ISO 868
Tensile Strength, Ultimate	16.0 MPa	2320 psi	ISO R527-1
Tensile Strength, Yield	15.0 MPa	2180 psi	ISO R527-1
Elongation at Break	>= 500 %	>= 500 %	ISO R527-1
Elongation at Yield	15 %	15 %	ISO R527-1
Flexural Modulus	0.610 GPa	88.5 ksi	ISO 178
Izod Impact, Notched	0.800 J/cm @Temperature -40.0 °C	1.50 ft-lb/in @Temperature -40.0 °F	ISO 180
Impact Test	22.0 J @Temperature -30.0 °C	16.2 ft-lb @Temperature -22.0 °F	MAII, E at Max Load, Ductile; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C @Temperature -30.0 -	61.1 µin/in-°F @Temperature -22.0 -	ASTM D696

Thermal Properties	100 °C Metric	212 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	41.0 °C	106 °F	ISO 75

## Contact Songhan Plastic Technology Co.,Ltd.

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