

Borealis HC600TF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HC600TF is a polypropylene homopolymer intended for thermoformed packaging applications. Its very good organoleptic properties allows this grade to be used with any masterbatch without discoloring problems. Applications: HC600TF is designed for in-line and off line thermoforming, housewares and thin wall packaging, margarine tubs, and mixing with copolymer. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HC600TF-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	2.8 g/10 min @Load 2.16 kg, Temperature 230 °C	2.8 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	50mm/min; ISO 527-2
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.50 GPa	218 ksi	5mm/min; ISO 178
Charpy Impact, Notched	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	162 - 166 °C	324 - 331 °F	DSC; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	ISO 75-2

Optical Properties	Metric	English	Comments
Haze	27 %	27 %	ASTM D1003
Gloss	80 %	80 %	20° of arc; ASTM D2457

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