

Borealis HB300TF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HB300TF is a polypropylene homopolymer intended for thermoformed packaging applications. This grade is produced using the Borealis nucleating technology. Its increased crystallization temperature allows reduced cycle time and increased output. Applications: HB300TF is recommended for high transparent trays, cups and containers, house ware and thin wall packaging, margarine tubs and dairy containers, mixing with copolymer, and in line and off line thermoforming. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HB300TF-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	base resin; ISO 1183
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	ISO 527-2
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.70 GPa	247 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.65 GPa	239 ksi	5mm/min; ISO 178
Charpy Impact, Notched	0.700 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	164 - 168 °C	327 - 334 °F	DSC; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-2

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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