

Borealis HB205TF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HB205TF is a low melt flow rate polypropylene homopolymer intended for extrusion, calendering and thermoforming. Its very good organoleptic properties allows this grade to be used with any master batch without discoloring problems. Applications: HB205TF is recommended for in-line and off line thermoforming, stationary films, house ware and thin wall packaging, margarine tubs, lids, mixing with copolymer, calendered films, blister packaging, and general packaging. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HB205TF-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 - 29.0 MPa	3920 - 4210 psi	MD/TD; ISO 527-2
Elongation at Yield	10 - 13 %	10 - 13 %	MD/TD; ISO 527-3
Tensile Modulus	1.30 GPa	189 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.20 GPa	174 ksi	5mm/min; ISO 178
Charpy Impact, Notched	0.550 J/cm ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	162 - 165 °C	324 - 329 °F	DSC; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-2

Optical Properties	Metric	English	Comments
Haze	21 %	21 %	ASTM D1003
Gloss	90 %	90 %	20° of arc; ASTM D2457

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