

Borealis Bormod™ HC905TF Polypropylene Homopolymer for Thermoforming

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Bormod HC905TF is a low melt flow rate polypropylene homopolymer intended for thermoformed packaging applications. This homopolymer is produced using the Borealis Controlled Crystallinity Polypropylene (CCPP) technology. This provides a polypropylene with excellent processing consistency and its high crystallization temperature allows for reduced cycle time and increased output. Bormod HC905TF is suitable for both in-line and off-line thermoforming where it shows a wide processing window and gives very consistent shrinkage behavior after forming. Bormod HC905TF is recommended for the following applications including highly transparent trays, cups and containers, houseware and thin wall packaging, margarine tubs and dairy containers, and blending with copolymers for lids. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Bormod-HC905TF-Polypropylene-Homopolymer-for-Thermoforming.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	
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	39.50 MPa	5729 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	7.0 %	7.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	2.10 GPa	305 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	2.00 GPa	290 ksi	At 2 mm/min; ISO 178
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	164 - 168 °C	327 - 334 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	244 °F	ISO 75-2

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

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 °C	410 - 464 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	

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