

Borealis HC101BF Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HC101BF is a polypropylene homopolymer. Applications: HC101BF has been developed especially for applications like: co-extrusion applications, print lamination, metallisable film, coated film, packages for bakery products, flower packaging, textile film yarns, woven fabrics, ropes and twines. HC101BF contains no slip, antiblock, antistatic additives or nucleating additives. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HC101BF-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Melt Flow	3.2 g/10 min	3.2 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	4.5 g/10 min	4.5 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	15 g/10 min	15 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 - 200 %	150 - 200 %	ISO 527-3
Film Elongation at Break, TD	50 - 90 %	50 - 90 %	ISO 527-3
Tensile Modulus	2.00 - 2.20 GPa	290 - 319 ksi	MD; ISO 527-2
	3.30 - 3.50 GPa	479 - 508 ksi	TD; ISO 527-2
Film Tensile Strength at Break, MD	130 - 160 MPa	18900 - 23200 psi	ISO 527-3
Film Tensile Strength at Break, TD	230 - 280 MPa	33400 - 40600 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	161 - 165 °C	322 - 329 °F	DSC; ISO 3146

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Gloss	>= 100 %	>= 100 %	45°C of arc; ASTM D2457

Optical Properties	Metric	English	Value	Comments
Descriptive Properties				Comments
Isotactic Index (Heptane Insolubles, %)			96	

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