

Borealis Bormod™ HC904CF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Bormod™ BJ368MO is a polypropylene copolymer characterized by good flow, and optimum combination of high stiffness and high impact strength. The material is nucleated with Borstar® Nucleation Technology (BNT). Flow properties, nucleation and good stiffness give potential for cycle time reduction. The material have good antistatic performance and good mould release properties. Applications: Thin wall containers. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Bormod-HC904CF-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	39.5 MPa	5730 psi	50mm/min; ISO 527-2
Film Elongation at Break, MD	158 %	158 %	blown films; ISO 527-3
	450 %	450 %	cast films; ISO 527-3
Film Elongation at Break, TD	4.0 %	4.0 %	blown films; ISO 527-3
	5.0 %	5.0 %	cast films; ISO 527-3
Elongation at Yield	7.0 %	7.0 %	ISO 527-2
Tensile Modulus	1.55 GPa	225 ksi	roll stack films TD; ISO 527-3
	1.70 GPa	247 ksi	roll stack films MD; ISO 527-3
	1.70 GPa	247 ksi	cast films TD; ISO 527-3
	1.875 GPa	271.9 ksi	cast films MD; ISO 527-3
	2.05 GPa	297 ksi	blown films MD; ISO 527-3
	2.07 GPa	300 ksi	blown films TD; ISO 527-3
Flexural Modulus	2.00 GPa	290 ksi	50% humidity; 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

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	@Thickness 0.0500 mm	@Thickness 0.00197 in	cast films; ISO 7765-2
	1.00 J	0.738 ft-lb	roll stack films; ISO 7765-2
	@Thickness 0.300 mm	@Thickness 0.0118 in	
Coefficient of Friction	0.30 - 0.40	0.30 - 0.40	film to film; cast; ISO 8295
	0.30 - 0.40	0.30 - 0.40	film to film; blown; ISO 8295
Dart Drop Test	>= 25.0 g	>= 0.0551 lb	blown films; ISO 7765-1
	@Thickness 0.0500 mm	@Thickness 0.00197 in	
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	blown films; ISO 527-3
	60.0 MPa	8700 psi	cast films; ISO 527-3
Film Tensile Strength at Break, TD	40.0 MPa	5800 psi	cast films; ISO 527-3
	42.0 MPa	6090 psi	blown films; ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	166 °C	331 °F	DSC; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	244 °F	ISO 75-2
Vicat Softening Point	156 °C	313 °F	A50; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Haze	<= 5.0 %	<= 5.0 %	cast films; ASTM D1003
	<= 13.5 %	<= 13.5 %	roll stack films; ASTM D1003
	<= 14 %	<= 14 %	blown films; ASTM D1003
Gloss	>= 45 %	>= 45 %	20° of arc, blown films; ASTM D2457
	>= 110 %	>= 110 %	20° of arc, cast films; ASTM D2457
	>= 130 %	>= 130 %	20° of arc, roll stack films; ASTM D2457

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China