

Borealis Borsoft™ SD233CF High Impact Polypropylene Random Heterophasic Copolymer for Cast Film

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

Borsoft SD233CF is a very soft random heterophasic copolymer, suitable for use on chill roll process. The product combines unique softness with outstanding mechanical properties making it the ideal solution for mono and coex film design. Borsoft SD233CF is especially suitable for stationery folders, food/textile packaging, technical films, property modification in other applications fields, substitution of other plastics, and hygienic films. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borsoft-SD233CF-High-Impact-Polypropylene-Random-Heterophasic-Copolymer-for-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in ³	ISO 1183
Thickness	50.0 microns	1.97 mil	
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	650 %	650 %	ISO 527-3
Film Elongation at Break, TD	850 %	850 %	ISO 527-3
Flexural Modulus	0.400 GPa	58.0 ksi	ISO 178
Secant Modulus, MD	0.150 GPa	21.8 ksi	ISO 527-3
Secant Modulus, TD	0.250 GPa	36.3 ksi	ISO 527-3
Impact	60	60	Dynatest, Damaging Force (N); ISO 7765-2
Impact Test	1.75 J	1.29 ft-lb	Dynatest, Penetration Energy; ISO 7765-2
Film Tensile Strength at Break, MD	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527-3
Film Tensile Strength at Break, TD	25.0 - 45.0 MPa	3630 - 6530 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	138 - 142 °C	280 - 288 °F	ISO 3146
Vicat Softening Point	107 °C	225 °F	A (10N); ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 4.0 %	<= 4.0 %	ASTM D1003
Gloss	>= 90 %	>= 90 %	ASTM D2457

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