

DuPont™ Surlyn® PC350 Ionomer Resin, Highest Clarity, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® PC350 luxury molding resin is a "select" grade of Surlyn® 8945, controlled to achieve the highest possible optical clarity in molded perfume jars and caps, while being optimized for processing by injection molding. It complies with the provisions of U.S. Food and Drug Administration (FDA) Title 21 Code of Regulations 177.1330 - ionomer resins. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-PC350-Ionomer-Resin-Highest-Clarity-Sodium.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in³	ASTM D792
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Ultimate	22.0 MPa	3190 psi	ASTM D638
Tensile Strength, Yield	16.0 MPa	2320 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	325 %	325 %	ASTM D638
Flexural Modulus	0.448 GPa	65.0 ksi	ASTM D790
Abrasion	360	360	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
Melting Point	88.0 °C	190 °F	DSC
Vicat Softening Point	71.0 °C	160 °F	Rate B, ASTM D1525-70

Optical Properties	Metric	English	Comments
Haze	5.0 % @Thickness 6.35 mm	5.0 % @Thickness 0.250 in	ASTM D1003A
Gloss	143 %	143 %	20° per ASTM D523-6
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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