

DuPont™ Surlyn® 8660 Ionomer Resin, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 8660 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions. The amount of MAA and neutralization levels for this grade are optimized for ease of compounding with high loadings of various color pigments. The resin is easily injection molded, and also is used in foamed applications. 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-8660-Ionomer-Resin-Sodium.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in³	ASTM D792
Melt Flow	10 g/10 min	10 g/10 min	condition E; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Ultimate	23.4 MPa	3390 psi	ASTM D638
Tensile Strength, Yield	13.1 MPa	1900 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	470 %	470 %	ASTM D638
Flexural Modulus	0.230 GPa	33.4 ksi	ASTM D790
Izod Impact, Notched	8.55 J/cm	16.0 ft-lb/in	ASTM D256
Tensile Impact Strength	730 kJ/m²	347 ft-lb/in²	ASTM D1822S
Abrasion	170	170	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ASTM D696
	@Temperature -20.0 - 32.0 °C	@Temperature -4.00 - 89.6 °F	
Thermal Conductivity	0.246 W/m-K	1.71 BTU-in/hr-ft²-°F	
Melting Point	95.0 °C	203 °F	DTA
Deflection Temperature at 0.46 MPa			

(56 psi) Thermal Properties	42.0 °C Metric	108 °F English	ASTM D648 Comments
Vicat Softening Point	71.0 °C	160 °F	Rate B, ASTM D1525-70
Brittleness Temperature	-75.0 °C	-103 °F	ASTM D746
Flame Spread	25.4 mm/min	1.00 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	11 % @Thickness 6.40 mm	11 % @Thickness 0.252 in	ASTM D1003A

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