

DuPont™ Surlyn® 8020 Ionomer Resin, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 8020 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 to deliver toughness, either on its own or when used as a toughener for polymer modification. The resin can be blow molded, or processed by extrusion into sheets or shapes. 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-8020-Ionomer-Resin-Sodium.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM D2240
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	530 %	530 %	ASTM D638
Flexural Modulus	0.100 GPa	14.5 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	1320 kJ/m ²	628 ft-lb/in ²	ASTM D1822S
Abrasion	150	150	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	170 µm/m-°C @Temperature -20.0 - 32.0 °C	94.4 µin/in-°F @Temperature -4.00 - 89.6 °F	ASTM D696
Thermal Conductivity	0.246 W/m-K	1.71 BTU-in/hr-ft ² -°F	
Melting Point	82.0 °C	180 °F	DTA
Deflection Temperature at 0.46 MPa (66 psi)	40.0 °C	104 °F	ASTM D648

Vicat Softening Point Thermal Properties	61.0 °C Metric	142 °F English	Rate B, ASTM D1525-70 Comments
Brittleness Temperature	-112 °C	-170 °F	ASTM D746
Flame Spread	23 mm/min	0.91 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	19 % @Thickness 6.40 mm	19 % @Thickness 0.252 in	ASTM D1003A

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