

DuPont™ Surlyn® 9020 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9020 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with zinc ions. The resin contains an additional co-monomer to facilitate its use as a modifier for toughened grades of nylon 6 and 6/6. The amount of MAA and neutralization levels for this grade are optimized to impart low-temperature toughness. The resin 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-9020-Ionomer-Resin-Zinc.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 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	55	55	ASTM D2240
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	510 %	510 %	ASTM D638
Flexural Modulus	0.100 GPa	14.5 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	1280 kJ/m ²	609 ft-lb/in ²	ASTM D1822S
Abrasion	220	220	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	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
Melting Point	81.0 °C	178 °F	DTA
Deflection Temperature at 0.46 MPa (66 psi)	40.0 °C	104 °F	ASTM D648

Vicat Softening Point Thermal Properties	57.0 °C Metric	135 °F English	Rate B, ASTM D1525-70 Comments
Brittleness Temperature	-112 °C	-170 °F	ASTM D746
Flame Spread	25.4 mm/min	1.00 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	7.0 % @Thickness 6.35 mm	7.0 % @Thickness 0.250 in	ASTM D1003A
Gloss	45 %	45 %	20° per ASTM D523-6

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