

DuPont™ Surlyn® 9721 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9721 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 amount of MAA and neutralization levels for this grade are optimized to deliver low-temperature toughness, plus abrasion resistance and stiffness. It is ideal for modifying nylon resins for increased Izod impact performance. The resin can be injection or blow molded, and is processable 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-9721-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	61	61	ASTM D2240
Tensile Strength, Ultimate	30.3 MPa	4390 psi	ASTM D638
Tensile Strength, Yield	11.7 MPa	1700 psi	50 mm/min cross speed, ASTM D638
Elongation at Break	440 %	440 %	ASTM D638
Flexural Modulus	0.250 GPa	36.3 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	1260 kJ/m ²	600 ft-lb/in ²	ASTM D1822S
Tear Strength	102 kN/m	582 pli	Die C; ASTM D624
Abrasion	410	410	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	160 µm/m-°C @Temperature -20.0 - 32.0 °C	88.9 µin/in-°F @Temperature -4.00 - 89.6 °F	ASTM D696
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	92.0 °C	198 °F	DTA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	43.0 °C	109 °F	ASTM D648
Vicat Softening Point	71.0 °C	160 °F	Rate B, ASTM D1525-70
Brittleness Temperature	-110 °C	-166 °F	ASTM D746
Flame Spread	25.4 mm/min	1.00 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	12 % @Thickness 6.40 mm	12 % @Thickness 0.252 in	ASTM D1003A
Gloss	25 %	25 %	20° per ASTM D523-6

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