

## DuPont™ Surlyn® 9520 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

### Material Notes:

Surlyn® 9520 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. The resin can be injection or blow molded, and is processable by extrusion into sheets or shapes. However, its main application is as an engineering resin modifier: It improves the toughness of nylon 6 and 6/6 resins. 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-9520-Ionomer-Resin-Zinc.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-9520-Ionomer-Resin-Zinc.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D792
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 190 °C	1.1 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength, Ultimate	25.5 MPa	3700 psi	ASTM D638
Tensile Strength, Yield	12.4 MPa	1800 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	410 %	410 %	ASTM D638
Flexural Modulus	0.260 GPa	37.7 ksi	ASTM D790
Izod Impact, Notched	5.40 J/cm	10.1 ft-lb/in	ASTM D256
Tensile Impact Strength	1190 kJ/m <sup>2</sup>	566 ft-lb/in <sup>2</sup>	ASTM D1822S
Abrasion	290	290	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C @Temperature -20.0 - 32.0 °C	83.3 µin/in-°F @Temperature -4.00 - 89.6 °F	ASTM D696
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	96.0 °C	205 °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	74.0 °C	165 °F	Rate B, ASTM D1525-70
Brittleness Temperature	-71.0 °C	-95.8 °F	ASTM D746
Flame Spread	17.8 mm/min	0.701 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	26 % @Thickness 6.40 mm	26 % @Thickness 0.252 in	ASTM D1003A

## Contact Songhan Plastic Technology Co.,Ltd.

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