

## DuPont™ Surlyn® 8527 Ionomer Resin, Sodium (discontinued \*\*)

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

### Material Notes:

Surlyn® 8527 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 result in excellent clarity and abrasion resistance. 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-8527-Ionomer-Resin-Sodium-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-8527-Ionomer-Resin-Sodium-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	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	60	60	ASTM D2240
Tensile Strength, Ultimate	29.0 MPa	4210 psi	ASTM D638
Tensile Strength, Yield	12.4 MPa	1800 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	450 %	450 %	ASTM D638
Flexural Modulus	0.220 GPa	31.9 ksi	ASTM D790
Izod Impact, Notched	6.10 J/cm	11.4 ft-lb/in	ASTM D256
Tensile Impact Strength	1160 kJ/m <sup>2</sup>	552 ft-lb/in <sup>2</sup>	ASTM D1822S
Abrasion	600	600	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C @Temperature -20.0 - 32.0 °C	77.8 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	93.0 °C	199 °F	DTA
Deflection Temperature at 0.46 MPa (66 psi)	44.0 °C	111 °F	ASTM D648

Vicat Softening Point Thermal Properties	73.0 °C Metric	163 °F English	Rate B, ASTM D1525-70 Comments
Brittleness Temperature	-95.0 °C	-139 °F	ASTM D746
Flame Spread	22.9 mm/min	0.902 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	6.0 % @Thickness 6.35 mm	6.0 % @Thickness 0.250 in	ASTM D1003A
Gloss	75 %	75 %	20° per ASTM D523-6

## Contact Songhan Plastic Technology Co.,Ltd.

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