

## DuPont™ Surlyn® 6320 Magnesium Ionomer

Category : Polymer , Thermoplastic , Ionomer

### Material Notes:

Surlyn® 6320 is a magnesium ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 6320 thermoplastic resin is an advanced ethylene/acid/acrylate terpolymer, in which some of the MAA acid groups have been partially neutralized with magnesium ions.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Surlyn-6320-Magnesium-Ionomer.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-6320-Magnesium-Ionomer.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D792, ISO 1183
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	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	43	43	ASTM D2240, ISO 868
Tensile Strength at Break	23.4 MPa @Temperature 23.0 °C	3390 psi @Temperature 73.4 °F	ASTM D638, ISO 527-2
Elongation at Break	530 % @Temperature 23.0 °C	530 % @Temperature 73.4 °F	ASTM D638, ISO 527-2
Flexural Modulus	0.0531 GPa @Temperature 23.0 °C	7.70 ksi @Temperature 73.4 °F	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	34.0 °C	93.2 °F	Freezing Point; ASTM D3418, ISO 3146
	70.0 °C	158 °F	ASTM D3418, ISO 3146
Vicat Softening Point	49.0 °C	120 °F	ASTM D1525, ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	<= 285 °C	<= 545 °F	
Melt Temperature	185 - 285 °C	365 - 545 °F	Extrusion Coating

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