

DuPont™ Surlyn® 8528 Sodium Ionomer

Category : Polymer , Thermoplastic , Ionomer

Material Notes:

Surlyn® 8528 is a sodium ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 8528 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions. SURLYN® 8528 complies with Food and Drug Administration Regulation 21 CFR 177.1330(a) - - Ionomeric resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, subject to the finished food-contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (c) of the Regulation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-8528-Sodium-Ionomer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792, ISO 1183
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240, ISO 868
Abrasive Hardness	600	600	NBS Index, ASTM D1630
Tensile Strength at Break	29.0 MPa @Temperature 23.0 °C	4210 psi @Temperature 73.4 °F	ASTM D638, ISO 527-2
Elongation at Break	450 % @Temperature 23.0 °C	450 % @Temperature 73.4 °F	ASTM D638, ISO 527-2
Flexural Modulus	0.220 GPa @Temperature 23.0 °C	31.9 ksi @Temperature 73.4 °F	ASTM D790
	0.576 GPa @Temperature -20.0 °C	83.5 ksi @Temperature -4.00 °F	ASTM D790
Tensile Impact Strength	934 kJ/m ² @Temperature -40.0 °C	445 ft-lb/in ² @Temperature -40.0 °F	ASTM D1822
	1160 kJ/m ² @Temperature 23.0 °C	550 ft-lb/in ² @Temperature 73.4 °F	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	66.0 °C	151 °F	Freezing Point; ASTM D3418, ISO 3146
	93.0 °C	199 °F	ASTM D3418, ISO 3146
Vicat Softening Point	73.0 °C	163 °F	ASTM D1525, ISO 306
Brittleness Temperature	-95.0 °C	-139 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
	@Thickness 6.35 mm	@Thickness 0.250 in	

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

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