

Surlyn® 8528

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

Message:

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.

General Information			
Features	Copolymer		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
Ion Type	Sodium		
Abrasion Resistance - NBS Index	600		ASTM D1630
Freezing Point			
--	66	°C	ASTM D3418
--	66	°C	ISO 3146

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	29.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	450	%	ASTM D638, ISO 527-2
Flexural Modulus			ASTM D790
-20°C	576	MPa	
23°C	220	MPa	

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	935	kJ/m ²	
23°C	1160	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-95.0	°C	ASTM D746

Vicat Softening Temperature	73.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	93.0	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze	6.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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