

Surlyn® 9945

Ionomer

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9945 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 9945 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with zinc ions.

General Information			
Features	Fast Molding Cycle		
	High Flow		
	Resilient		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Pellets		
Processing Method	Injection Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Freezing Point			
--	51	°C	ISO 3146
--	51	°C	ASTM D3418
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	13.8	MPa	ASTM D638
Break	19.3	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	300	%	ASTM D638, ISO 527-2
Flexural Modulus	338	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	71.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	89.0	°C	ASTM D3418, ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	

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