

Surlyn® 9950

Ethylene Methacrylic Acid

DuPont Packaging & Industrial Polymers

Message:

Surlyn® 9950 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes.

Surlyn® 9950 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	Copolymer		
Agency Ratings	FDA 21 CFR 177.1330(a)		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Ion Type	Zinc		
Abrasion Resistance - NBS Index	130		ASTM D1630
Freezing Point			
--	63	°C	ASTM D3418
--	63	°C	ISO 3146
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C, Compression Molded ¹	12.4	MPa	ASTM D638
Break, 23°C	28.3	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	490	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	662	kJ/m ²	
23°C	1020	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-100	°C	ASTM D746
Vicat Softening Temperature	79.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	87.0	°C	ASTM D3418, ISO 3146
CLTE - Flow (-20 to 32°C)	1.5E-4	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method

Haze (6350 μm)	18	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	
NOTE			
1.	Type IV, 50 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

