

Surlyn® 7940

Ethylene Methacrylic Acid
DuPont Packaging & Industrial Polymers

Message:

Surlyn® 7940 is a lithium ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 7940 thermoplastic resin is an advanced ethylene/acid/acrylate terpolymer, in which some of the MAA acid groups have been partially neutralized with lithium ions.

General Information			
Features	Terpolymer		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.6	g/10 min	ASTM D1238, ISO 1133
Ion Type	Lithium		
Freezing Point			
--	48	°C	ISO 3146
--	48	°C	ASTM D3418
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C, Compression Molded ¹	15.2	MPa	ASTM D638
Break, 23°C	26.2	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C)	290	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C)	420	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	525	kJ/m²	
23°C	462	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	63.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	91.0	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method

Haze (6350 μm)	4.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 285	°C	
NOTE			
1.	Type IV, 50 mm/min		

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