ENTEC Surlyn® 9150 DuPont Packaging & Industrial Polymers - Ethylene Methacrylic Acid

Monday, September 21, 2020

General Information

Product Description

DuPont[™] Surlyn[®] 9150 is an ionomer of ethylene acid copolymer.

This polymeric material can be processed in conventional extrusion and injection equipment designed to process polyethylene and ethylene copolymer type resins, to create various shapes and sheeting.

Material Status	 Commercial: Active 			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Features	Copolymer			
Uses	Sheet			
Forms	Pellets			
Processing Method	Extrusion	 Injection Molding 	 Sheet Extrusion 	

ASTM & ISO Properties ¹						
Physical	Nominal Value	Unit	Test Method			
Density / Specific Gravity	0.972		ASTM D792			
Density	0.970	g/cm³	ISO 1183			
Melt Mass-Flow Rate (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238			
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ISO 1133			
lon Type	Zinc					
Mechanical	Nominal Value	Unit	Test Method			
Tensile Strength ² (Yield, 73°F, Compression Molded)	2310	psi	ASTM D638			
Tensile Strength (Break, 73°F)	4100	psi	ASTM D638			
Tensile Stress (Break, 73°F)	4100	psi	ISO 527-2			
Tensile Elongation (Break, 73°F)	340	%	ASTM D638			
Tensile Strain (Break, 73°F)	340	%	ISO 527-2			
Flexural Modulus (73°F)	52100	psi	ASTM D790			
Abrasion Resistance - NBS Index	368		ASTM D1630			
Impact	Nominal Value	Unit	Test Method			
Tensile Impact Strength	298	ft-lb/in ²	ASTM D1822			
Hardness	Nominal Value	Unit	Test Method			
Durometer Hardness (Shore D)	63		ASTM D2240			
Shore Hardness (Shore D)	63		ISO 868			
Thermal	Nominal Value	Unit	Test Method			
Vicat Softening Temperature	135	°F	ASTM D1525			
Vicat Softening Temperature	135	°F	ISO 306			
Peak Melting Temperature	180	°F	ASTM D3418			
Melting Temperature (DSC)	180	°F	ISO 3146			
Freezing Point						
	108	°F	ASTM D3418			
	108	°F	ISO 3146			



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Optical	Nominal Value	Unit	Test Method
Haze (250.0 mil)	3.20	%	ASTM D1003
	Processing Information		
Injection	Nominal Value Unit		

Injection

365 to 545 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, 2.0 in/min

Processing (Melt) Temp



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