

ESPOLEX 821

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 821 is a Thermoplastic Polyolefin Elastomer (TPO (POE)) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of ESPOLEX 821 include automotive, hose/tubing and sheet.

General Information			
Uses	Automotive Applications		
	Hose		
	Sheet		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.2	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	94		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	62.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	5.40	MPa	ISO 37
Tensile Stress ² (Break)	16.0	MPa	ISO 37
Tensile Elongation ³ (Break)	810	%	ISO 37
Compression Set ⁴			ISO 37
23°C, 22 hr	31	%	
70°C, 22 hr	71	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature (Type A)	< -60.0	°C	ISO 812
Injection	Nominal Value	Unit	
Processing (Melt) Temp	188 to 238	°C	
NOTE			
1.	Type 1A, 500 mm/min		
2.	Type 1A, 500 mm/min		
3.	Type 1A, 500 mm/min		
4.	Type A		

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