

ESPOLEX 4785

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 4785 is a Thermoplastic Polyolefin Elastomer (TPO (POE)) product. It can be processed by injection molding or profile extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of ESPOLEX 4785 include hose/tubing and automotive.

General Information			
Uses	Automotive Applications		
	Hose		
	Profiles		
	Tubing		
Processing Method	Injection Molding		
	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	40	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	65		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	2.20	MPa	ISO 37
Tensile Stress ² (Break)	10.0	MPa	ISO 37
Tensile Elongation ³ (Break)	800	%	ISO 37
Compression Set			ISO 37
23°C, 22 hr	32	%	
70°C, 22 hr	48	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴			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		

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