

ESPOLEX 3885

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 3885 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

General Information			
Uses	Weather-resistant sealing strip		
	Automotive exterior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A	85		ISO 868
Shaw A, 10 seconds	76		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	65.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	3.50	MPa	ISO 37
Tensile Stress ² (Break)	9.30	MPa	ISO 37
Tensile Elongation ³ (Break)	650	%	ISO 37
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴			ISO 179
-30°C	No Break		ISO 179
23°C	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature (Type A)	< -60.0	°C	ISO 812
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 - 243	°C	
Mold Temperature	21.1 - 48.9	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			
Injection Pressure: HighPack/Hold Pressure: 40-70% of Inj PressScrew RPM: SlowPart Draft: 3-6° per sideTool Surface Finish: Light Texture			
NOTE			
1.	Type 1A, 500mm/min		

2.	Type 1A, 500mm/min
3.	Type 1A, 500mm/min
4.	Thickness: 3.2 mm

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