

ESPOLEX 903

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 903 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. ESPOLEX 903 application areas include engineering/industrial accessories, automotive industry, handles and sporting goods.

General Information			
Uses	Handle		
	Automotive exterior parts		
	Sporting goods		
	Knob		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	17.0	MPa	ISO 37
Tensile Stress ² (Break)	20.0	MPa	ISO 37
Tensile Elongation ³ (Break)	640	%	ISO 37
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴			ISO 179
-30°C	55	kJ/m²	ISO 179
23°C	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature (Type A)	< -58.0	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

