

ESPOLEX 487X

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 487X 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	Application in Automobile Field		
	Car interior equipment		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.4	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	38		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	140	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	7.70	MPa	ASTM D412
Tensile Elongation ² (Break)	430	%	ASTM D412
Tear Strength	53.0	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-45°C ³	No Break		ASTM D256
-40°C	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
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.	C mold, 500 mm/min		
2.	Mouth die C, 500 mm/min		
3.	95 J/m		

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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

