

ESPOLEX 412A

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 412A 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	0.878	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	251	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D412
Yield	9.60	MPa	ASTM D412
Fracture	13.0	MPa	ASTM D412
Tensile Elongation ² (Break)	540	%	ASTM D412
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-45°C	No Break		ASTM D256
-40°C	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Burning Rate ³	32	mm/min	FMVSS 302
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		

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