

ESPOLEX WT501

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX WT501 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by profile extrusion molding or injection molding, and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. ESPOLEX WT501 applications include construction applications and the automotive industry. The main characteristics are: high liquidity.

General Information			
Features	High liquidity		
Uses	Architectural application field		
	Weather-resistant sealing strip		
Processing Method	Profile extrusion molding		
	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)	24	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	82		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.20	MPa	ASTM D412
Tensile Strength (Break)	10.3	MPa	ASTM D412
Tensile Elongation (Break)	570	%	ASTM D412
Tear Strength ¹ (70°C)	40.0	kN/m	JIS K6252
Compression Set (70°C, 22 hr)	45	%	JIS K6262
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
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.	22 hrs		

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