

ESPOLEX 3785

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX 3785 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 3785 applications include engineering/industrial accessories, automotive industry and handles.

General Information			
Uses	overmolding		
	Washer		
	Car interior parts		
	Soft handle		
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/10.0 kg)	50	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A	73		ISO 868
Shaw A, 10 seconds	65		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	2.60	MPa	ISO 37
Tensile Stress ² (Break)	5.50	MPa	ISO 37
Tensile Elongation ³ (Break)	530	%	ISO 37
Compression Set ⁴			ISO 37
23°C, 22 hr	27	%	ISO 37
70°C, 22 hr	35	%	ISO 37
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.	Type a

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

