



Sarlink® TPE ME-2570B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

The Sarlink ME-2500 Series are super high flow, high density, high performance thermoplastic elastomers designed for demanding exterior automotive molding applications, including window encapsulation. Sarlink ME-2570B is a high density, medium hardness injection molding grade with excellent UV resistance and adhesion to glass with primer.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Flexibility • Good Processability	• Good Surface Finish • Good Toughness • High Density • High Flow	• High Specific Gravity • Medium Hardness • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Rubber Replacement	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Flow : 100% Strain, 73°F	334	psi	
Across Flow : 100% Strain, 73°F ²	305	psi	
Tensile Strength			
Flow : Break, 73°F	856	psi	ASTM D412
Across Flow : Break, 73°F ²	943	psi	ISO 37
Tensile Elongation			
Flow : Break, 73°F	730	%	ASTM D412
Across Flow : Break, 73°F ²	800	%	ISO 37
Tear Strength			ISO 34
Flow : 73°F	160	lbf/in	
Across Flow : 73°F, 19.7 in ³	160	lbf/in	
Compression Set			ISO 815
73°F, 22 hr	22	%	
158°F, 22 hr	46	%	
194°F, 70 hr	76	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec	74		
Shore A, 5 sec	70		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
230°F, 1008 hr	-11	%	
257°F, 168 hr	12	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
230°F, 1008 hr	2.0	%	
257°F, 168 hr	12	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr	3.3		
Shore A, 257°F, 1008 hr	4.5		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	123	Pa·s	ASTM D3835

Processing Information			
Injection	Nominal Value	Unit	
Rear Temperature	338 to 374	°F	
Middle Temperature	347 to 383	°F	
Front Temperature	356 to 401	°F	
Nozzle Temperature	356 to 401	°F	
Processing (Melt) Temp	356 to 401	°F	
Mold Temperature	59 to 104	°F	
Injection Pressure	200 to 1000	psi	
Injection Rate	Moderate-Fast		
Back Pressure	25.0 to 125	psi	
Screw Speed	50 to 100	rpm	
Cushion	0.150 to 1.00	in	
Injection Notes			
Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 176°F (80°C).			

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 20 in/min
- ³ Method Ba, Angle (Unnicked)