Sarlink® TPE ME-2170B

Teknor Apex Company - Thermoplastic Elastomer

Friday, April 3, 2026

General Information

Product Description

Sarlink TPE ME-2100 Series are general purpose thermoplastic elastomers designed for exterior automotive molding applications. Sarlink TPE ME-2170B is a medium hardness, high density, filled grade having good UV resistance.

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	367	psi	
Flow : 100% Strain	476	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	938	psi	
Flow : Break	962	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	690	%	
Flow : Break	600	%	
Tear Strength [3]			ISO 34-1
Across Flow	163	lbf/in	
Flow	139	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	39	%	
158°F, 22 hr	54	%	
194°F, 70 hr	82	%	
257°F, 70 hr	97	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	76		
Shore A, 5 sec, Injection Molded	73		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	-7.6	%	
Flow : 230°F, 1008 hr	6.1	%	
Across Flow : 100% Strain 230°F, 1008 hr	2.9	%	
Flow : 100% Strain 230°F, 1008 hr	-1.1	%	
Across Flow : 257°F, 168 hr	-4.3	%	
Flow : 257°F, 168 hr	-10	%	
Across Flow : 100% Strain 257°F, 168 hr	4.8	%	
Flow : 100% Strain 257°F, 168 hr	10	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	-1.1	%	
Flow : 230°F, 1008 hr	-3.0	%	
Across Flow : 257°F, 168 hr	2.6	%	
Flow : 257°F, 168 hr	-1.0	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	3.6		
Shore A, 230°F, 1008 hr [7]	3.4		
Shore A, 230°F, 1008 hr [8]	3.8		
Shore A, 257°F, 168 hr [6]	3.2		
Shore A, 257°F, 168 hr [7]	2.8		
Shore A, 257°F, 168 hr [8]	2.3		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	135	Pa·s	ASTM D3835

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 392	°F
Middle Temperature	347 to 428	°F
Front Temperature	356 to 446	°F
Nozzle Temperature	356 to 446	°F
Processing (Melt) Temp	356 to 446	°F
Mold Temperature	68 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).

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Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type 1, 20 in/min

[3] Method Ba, Angle (Unnicked), 20 in/min

[4] Type A

[5] Type 1

[6] 15 sec

[7] 5 sec

[8] Instant

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