

# Sarlink® TPE ME-2170B (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

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 Information			
Features	High specific gravity		
	High density		
	Good UV resistance		
	Workability, good		
	Good liquidity		
	Good adhesion		
	Good chemical resistance		
	Good toughness		
	Medium hardness		
Uses	Application in Automobile Field		
	Automotive exterior parts		
	Rubber substitution		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	72		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.60	MPa	ISO 37
Tensile Strength (Break)	6.90	MPa	ISO 37
Tensile Elongation (Break)	750	%	ISO 37
Compression Set (70°C, 22 hr)	46	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec <sup>-1</sup> )	115	Pa · s	ISO 11443
Legal statement			

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Injection	Nominal Value	Unit
Rear Temperature	165 - 175	°C
Middle Temperature	175 - 185	°C
Front Temperature	187 - 197	°C
Nozzle Temperature	187 - 197	°C
Processing (Melt) Temp	187 - 197	°C
Mold Temperature	20 - 40	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

#### Injection instructions

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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