

Sarlink® TPE ME-2570B XRD

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink ME-2500 Series are high-flow injection molding materials with excellent UV resistance and adhesion to glass.

General Information			
Features	Good UV resistance		
	High liquidity		
Uses	Automotive Window Encapsulation		
	Automotive exterior parts		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A, 1 sec	73		ISO 868
Shaw A, 5 seconds	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Flow: 100% strain, 23°C	2.20	MPa	ISO 37
Transverse flow: 100% strain, 23°C ¹	2.05	MPa	ISO 37
Tensile Strength			
Flow: fracture, 23°C	5.90	MPa	ASTM D412
Transverse flow: fracture, 23°C ²	6.50	MPa	ISO 37
Tensile Elongation			
Flow: fracture, 23°C	730	%	ASTM D412
Transverse flow: fracture, 23°C ³	800	%	ISO 37
Tear Strength			
Flow: 23°C	28	kN/m	ISO 34
Transverse flow: 23°C, 500mm ⁴	28	kN/m	ISO 34
Compression Set (70°C, 22 hr)	43	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188

110°C, 1008 hr	-10	%	ISO 188
125°C, 1008 hr	-23	%	ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			ISO 188
110°C, 1008 hr	-5.0	%	ISO 188
125°C, 1008 hr	-8.0	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr	3.3		ISO 188
Support a, 125°C, 1008 hr	4.5		ISO 188

Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, 206 1/sec (200°C)	134	Pa·s	ISO 11443

Injection	Nominal Value	Unit
Rear Temperature	170 - 190	°C
Middle Temperature	175 - 195	°C
Front Temperature	180 - 205	°C
Nozzle Temperature	180 - 205	°C
Processing (Melt) Temp	180 - 205	°C
Mold Temperature	15.0 - 40.0	°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).

NOTE

- 500 mm/min
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- Method B, right-angle specimen (without cut)

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