+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE ME-2555B (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-2555B is a high density, medium hardness injection molding grade with excellent UV resistance and adhesion to glass with primer.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Chemical Resistant • Filled • Good Adhesion • Good Color Stability • Good Flexibility	• Good Mold Release • Good Moldability • Good Processability • Good Surface Finish • Good Toughness • High Density	• High Flow • High Specific Gravity • Light Stabilized • Medium Hardness
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 / Specific Gravity	1.10		ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Across Flow : 100% Strain	234	psi	
Flow : 100% Strain	273	psi	
Tensile Stress			ISO 37
Across Flow : Break	1040	psi	
Flow : Break	914	psi	
Tensile Elongation			ISO 37
Across Flow : Break	830	%	
Flow : Break	780	%	
Tear Strength			ISO 34-1
Across Flow	127	lbf/in	
Flow	132	lbf/in	
Compression Set			ISO 815
73°F, 72 hr	23	%	
158°F, 22 hr	39	%	
194°F, 70 hr	71	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore A, 1 sec	61		
Shore A, 5 sec	59		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
230°F, 1008 hr	6.4	%	
257°F, 168 hr	9.2	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
230°F, 1008 hr	2.2	%	
257°F, 168 hr	11	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr	0.50		
Shore A, 257°F, 168 hr	4.0		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	127	Pa·s	ASTM D3835

Additional Information
Adhesion to glass with primer

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.