+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE ME-2680 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

The Sarlink ME-2600 Series is a super high flow high performance thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications, including window encapsulation. Sarlink ME-2680B is a high hardness, low density, resilient, UV stabilized, super high flow injection molding grade delivering excellent aesthetics with good adhesion to glass with primer.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Ablation Resistant • Abrasion Resistant • Anti-fogging • Bondability • Chemical Resistant • Filled • General Purpose • Good Adhesion • Good Color Stability • Good Colorability	• Good Flexibility • Good Moldability • Good Processability • Good Scratch Resistance • Good Tear Strength • Halogen Free • High Elasticity • High Flow • High Hardness • High Tensile Strength	• Low Compression Set • Low Density • Low Gloss • Lubricated • Paintable • Pleasing Surface Appearance • UV Resistant • Wear Resistant
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim	• Automotive Interior Parts • Automotive Interior Trim • Automotive Window Encapsulation	• Overmolding • Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Black • Colors Available	• Natural Color • Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	497	psi	
Flow : 100% Strain	624	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1610	psi	
Flow : Break	1460	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	760	%	
Flow : Break	640	%	
Tear Strength [3]			ISO 34-1
Across Flow	213	lbf/in	
Flow	192	lbf/in	

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Elastomers	Nominal Value	Unit	Test Method
Compression Set [4]			ISO 815
73°F, 72 hr	35	%	
158°F, 22 hr	59	%	
212°F, 22 hr	67	%	
257°F, 70 hr	88	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	84		
Shore A, 5 sec, Injection Molded	83		
Shore A, 15 sec, Injection Molded	82		
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air			ISO 188
Across Flow : 230°F, 1008 hr [5]	5.1	%	
Flow : 230°F, 1008 hr [5]	4.3	%	
Across Flow : 257°F, 1008 hr [6]	-9.0	%	
Flow : 257°F, 1008 hr [6]	2.0	%	
Change in Tensile Strain at Break in Air			ISO 188
Across Flow : 230°F, 1008 hr [5]	13	%	
Flow : 230°F, 1008 hr [5]	13	%	
Across Flow : 257°F, 1008 hr [6]	3.8	%	
Flow : 257°F, 1008 hr [6]	15	%	
Change in Shore Hardness in Air [7]			ISO 188
Shore A, 230°F, 1008 hr	1.1		
Shore A, 257°F, 1008 hr	1.0		
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	175	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	380 to 480	°F
Middle Temperature	380 to 480	°F
Front Temperature	380 to 480	°F
Nozzle Temperature	380 to 480	°F
Processing (Melt) Temp	380 to 480	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in

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Injection Notes
Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

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] Type 2

[7] 15 sec delay