Sarlink® TPE ME-2375B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

The Sarlink ME-2300 Series is a high performance thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications. Sarlink ME-2375B is a medium hardness, low density, UV stabilized, high flow grade delivering excellent aesthetics and faster injection molding cycle times.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Fast Molding Cycle • Good Adhesion • Good Processability • Good Surface Finish	• High Flow • Light Stabilized • Low Density • Low Specific Gravity • Lubricated	• Medium Hardness • Sunlight Resistant • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • 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	0.890	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	348	psi	
Flow : 100% Strain	406	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1730	psi	
Flow : Break	1120	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	840	%	
Flow : Break	680	%	
Tear Strength [3]			ISO 34-1
Across Flow	210	lbf/in	
Flow	190	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	27	%	
158°F, 22 hr	42	%	
194°F, 70 hr	65	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	78		
Shore A, 5 sec, Injection Molded	75		
Shore A, 15 sec, Injection Molded	73		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow [5]			ISO 188
230°F, 1008 hr	-10	%	
100% Strain 230°F, 1008 hr	10	%	
257°F, 168 hr	-4.1	%	
100% Strain 257°F, 168 hr	11	%	
Change in Tensile Strain at Break in Air - Across Flow [5]			ISO 188
230°F, 1008 hr	-0.10	%	
257°F, 168 hr	0.60	%	
Change in Shore Hardness in Air [6]			ISO 188
Shore A, 230°F, 1008 hr	1.6		
Shore A, 257°F, 168 hr	0.80		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	150	Pa·s	ASTM D3835

Legal Statement

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	420 to 440	°F
Mold Temperature	95 to 150	°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

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] 5 sec

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