Sarlink® TPE ME-2285B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

The Sarlink ME-2200 Series is a general purpose thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications. Sarlink ME-2285B is a higher hardness, low density, UV stabilized grade suitable for injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Processability • High Hardness	• Light Stabilized • Low Density • Low Flow • Low Specific Gravity	• Lubricated • 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	0.926	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	571	psi	
Flow : 100% Strain	708	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1830	psi	
Flow : Break	1450	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	780	%	
Flow : Break	620	%	
Tear Strength [3]			ISO 34-1
Across Flow	260	lbf/in	
Flow	270	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	30	%	
158°F, 22 hr	54	%	
194°F, 70 hr	60	%	
257°F, 70 hr	99	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	88		
Shore A, 5 sec, Injection Molded	85		
Shore A, 15 sec, Injection Molded	83		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	7.9	%	
Flow : 230°F, 1008 hr	1.0	%	
Across Flow : 100% Strain 230°F, 1008 hr	12	%	
Flow : 100% Strain 230°F, 1008 hr	17	%	
Across Flow : 257°F, 168 hr	3.2	%	
Flow : 257°F, 168 hr	-11	%	
Across Flow : 100% Strain 257°F, 168 hr	11	%	
Flow : 100% Strain 257°F, 168 hr	17	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	0.0	%	
Flow : 230°F, 1008 hr	-3.7	%	
Across Flow : 257°F, 168 hr	0.0	%	
Flow : 257°F, 168 hr	-12	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	0.90		
Shore A, 230°F, 1008 hr [7]	0.30		
Shore A, 230°F, 1008 hr [8]	1.3		
Shore A, 257°F, 168 hr [7]	0.70		
Shore A, 257°F, 168 hr [6]	1.0		
Shore A, 257°F, 168 hr [8]	1.3		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	203	Pa·s	ASTM D3835

Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J2527
Delta E - 1250 kJ	0.240		
Delta E - 2500 kJ	0.380		

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	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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The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

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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] 5 sec

[7] 1 sec

[8] 15 sec

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