

Sarlink® TPE ME-2255B (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-2255B is a medium 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 • Light Stabilized • Low Density • Low Flow • 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	0.925	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow : 100% Strain	231	psi	
Flow : 100% Strain	329	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	1410	psi	
Flow : Break	682	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	870	%	
Flow : Break	570	%	
Tear Strength ³			ISO 34-1
Across Flow	140	lbf/in	
Flow	160	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	18	%	
158°F, 22 hr	37	%	
194°F, 70 hr	60	%	
257°F, 70 hr	82	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	56		
Shore A, 5 sec, Injection Molded	54		
Shore A, 15 sec, Injection Molded	52		

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Revision Date: 12/9/2016

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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	13	%	
Flow : 230°F, 1008 hr	30	%	
Across Flow : 100% Strain 230°F, 1008 hr	9.4	%	
Flow : 100% Strain 230°F, 1008 hr	8.8	%	
Across Flow : 257°F, 168 hr	4.1	%	
Flow : 257°F, 168 hr	17	%	
Across Flow : 100% Strain 257°F, 168 hr	6.9	%	
Flow : 100% Strain 257°F, 168 hr	8.8	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	20	%	
Flow : 230°F, 1008 hr	20	%	
Across Flow : 257°F, 168 hr	3.7	%	
Flow : 257°F, 168 hr	15	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	1.8		
Shore A, 230°F, 1008 hr ⁷	1.4		
Shore A, 230°F, 1008 hr ⁸	2.3		
Shore A, 257°F, 168 hr ⁷	1.0		
Shore A, 257°F, 168 hr ⁶	1.4		
Shore A, 257°F, 168 hr ⁸	1.8		

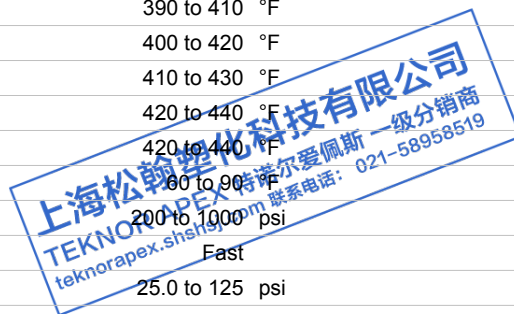
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	234	Pa·s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J2527
Delta E - 1250 kJ	0.710		
Delta E - 2500 kJ	0.280		

Legal Statement

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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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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

Teknor Apex Company Corporate Headquarters

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