



Sarlink® TPE ME-2245B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

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-2245B 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)	0.50	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow : 100% Strain	148	psi	
Flow : 100% Strain	229	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	986	psi	
Flow : Break	479	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	840	%	
Flow : Break	540	%	
Tear Strength ³			ISO 34-1
Across Flow	100	lbf/in	
Flow	120	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	14	%	
158°F, 22 hr	34	%	
194°F, 70 hr	57	%	
257°F, 70 hr	75	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	49		
Shore A, 5 sec, Injection Molded	46		
Shore A, 15 sec, Injection Molded	44		

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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	34	%	
Flow : 230°F, 1008 hr	67	%	
Across Flow : 100% Strain 230°F, 1008 hr	5.9	%	
Flow : 100% Strain 230°F, 1008 hr	5.7	%	
Across Flow : 257°F, 168 hr	31	%	
Flow : 257°F, 168 hr	52	%	
Across Flow : 100% Strain 257°F, 168 hr	2.9	%	
Flow : 100% Strain 257°F, 168 hr	0.0	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	7.0	%	
Flow : 230°F, 1008 hr	33	%	
Across Flow : 257°F, 168 hr	7.7	%	
Flow : 257°F, 168 hr	40	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	1.1		
Shore A, 230°F, 1008 hr ⁷	1.6		
Shore A, 230°F, 1008 hr ⁸	1.5		
Shore A, 257°F, 168 hr ⁷	0.60		
Shore A, 257°F, 168 hr ⁶	0.60		
Shore A, 257°F, 168 hr ⁸	0.90		
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	0.600		
Delta E - 2500 kJ	0.350		

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

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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