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TEKNOR APEX

Sarlink® TPE ME-2255B

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-2255B is a medium hardness, low density, UV stabilized grade suitable for injection molding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Chemical Resistant • Good Adhesion • Good Color Stability • Good Mold Release	• Good Moldability • Good Processability • Light Stabilized • Low Density • Low Flow	• Low Specific Gravity • Lubricated • Medium Hardness
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/cm³	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	143	lbf/in	
Flow	162	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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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]	1.4		
Shore A, 230°F, 1008 hr [7]	1.8		
Shore A, 230°F, 1008 hr [8]	2.3		
Shore A, 257°F, 168 hr [6]	1.0		
Shore A, 257°F, 168 hr [7]	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		

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

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Injection	Nominal Value	Unit
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] 1 sec

[7] 5 sec

[8] 15 sec