



# Sarlink® TPE ME-2275B

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-2275B 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 <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : 100% Strain	360	psi	
Flow : 100% Strain	473	psi	
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : Break	1650	psi	
Flow : Break	1020	psi	
Tensile Elongation <sup>2</sup>			ISO 37
Across Flow : Break	840	%	
Flow : Break	650	%	
Tear Strength <sup>3</sup>			ISO 34-1
Across Flow	184	lbf/in	
Flow	214	lbf/in	
Compression Set <sup>4</sup>			ISO 815
73°F, 22 hr	23	%	
158°F, 22 hr	42	%	
194°F, 70 hr	64	%	
257°F, 70 hr	86	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	77		
Shore A, 5 sec, Injection Molded	74		
Shore A, 15 sec, Injection Molded	72		

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<b>Aging</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Change in Tensile Strength in Air <sup>5</sup>			ISO 188
Across Flow : 230°F, 1008 hr	4.4	%	
Flow : 230°F, 1008 hr	4.3	%	
Across Flow : 100% Strain 230°F, 1008 hr	8.5	%	
Flow : 100% Strain 230°F, 1008 hr	13	%	
Across Flow : 257°F, 168 hr	3.5	%	
Flow : 257°F, 168 hr	1.4	%	
Across Flow : 100% Strain 257°F, 168 hr	6.5	%	
Flow : 100% Strain 257°F, 168 hr	13	%	
Change in Tensile Strain at Break in Air <sup>5</sup>			ISO 188
Across Flow : 230°F, 1008 hr	0.40	%	
Flow : 230°F, 1008 hr	-1.9	%	
Across Flow : 257°F, 168 hr	0.80	%	
Flow : 257°F, 168 hr	-3.4	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr <sup>6</sup>	1.5		
Shore A, 230°F, 1008 hr <sup>7</sup>	1.8		
Shore A, 230°F, 1008 hr <sup>8</sup>	2.2		
Shore A, 257°F, 168 hr <sup>6</sup>	0.30		
Shore A, 257°F, 168 hr <sup>7</sup>	0.60		
Shore A, 257°F, 168 hr <sup>8</sup>	0.90		
<b>Fill Analysis</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Apparent Viscosity (392°F, 206 sec <sup>-1</sup> )	203	Pa·s	ASTM D3835
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Xenon Weatherometer			SAE J2527
Delta E - 1250 kJ	0.500		
Delta E - 2500 kJ	0.330		

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type 1, 20 in/min

<sup>3</sup> Method Ba, Angle (Unnicked), 20 in/min

<sup>4</sup> Type A

<sup>5</sup> Type 1

<sup>6</sup> 1 sec

<sup>7</sup> 5 sec

<sup>8</sup> 15 sec