

# 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 <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)	7.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : 100% Strain	571	psi	
Flow : 100% Strain	708	psi	
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : Break	1830	psi	
Flow : Break	1450	psi	
Tensile Elongation <sup>2</sup>			ISO 37
Across Flow : Break	780	%	
Flow : Break	620	%	
Tear Strength <sup>3</sup>			ISO 34-1
Across Flow	260	lbf/in	
Flow	270	lbf/in	
Compression Set <sup>4</sup>			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		



Revision Date: 12/9/2016

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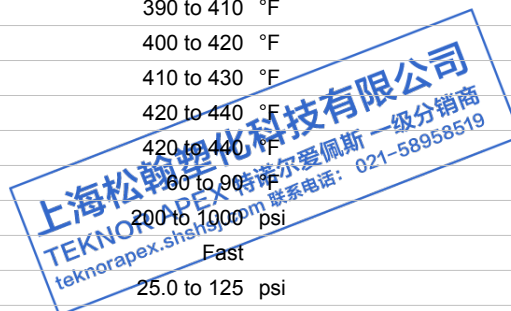
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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air <sup>5</sup>			ISO 188
Across Flow : 230°F, 1008 hr	7.9	%	
Flow : 230°F, 1008 hr	1.0	%	
Across Flow : 100% Strain 230°F, 1008 hr	12	%	
Flow : 100% Strain 230°F, 1008 hr	17	%	
Across 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 <sup>5</sup>			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 <sup>6</sup>	0.90		
Shore A, 230°F, 1008 hr <sup>7</sup>	0.30		
Shore A, 230°F, 1008 hr <sup>8</sup>	1.3		
Shore A, 257°F, 168 hr <sup>7</sup>	0.70		
Shore A, 257°F, 168 hr <sup>6</sup>	1.0		
Shore A, 257°F, 168 hr <sup>8</sup>	1.3		
<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	0.240		
Delta E - 2500 kJ	0.380		
<b>Legal Statement</b>			
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<b>Processing Information</b>			
<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	
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

<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> 5 sec

<sup>7</sup> 1 sec

<sup>8</sup> 15 sec

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