

# Sarlink® TPE ME-2470 BLK 111

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

## General Information

### Product Description

Sarlink ME-2470 BLK 111 is a high performance thermoplastic elastomer used in automotive applications including exterior trim. Sarlink ME-2470 BLK 111 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	• Light Stabilized • Low Density • Low Flow	• Low Specific Gravity • Medium Hardness • Sunlight Resistant	• UV Absorbing • Without Fillers
Uses	• Automotive Exterior Parts • Automotive Exterior Trim	• Automotive Interior Parts • Automotive Interior Trim	• Flexible Grips • Tubing
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	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, H-18 Wheel)	154	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : 100% Strain	368	psi	
Flow : 100% Strain	550	psi	
Tensile Stress <sup>2</sup>			ISO 37
Across Flow : Break	1650	psi	
Flow : Break	870	psi	
Tensile Elongation <sup>2</sup>			ISO 37
Across Flow : Break	740	%	
Flow : Break	420	%	
Tear Strength <sup>3</sup>			ISO 34-1
Across Flow	210	lbf/in	
Flow	250	lbf/in	
Compression Set <sup>4</sup>			ISO 815
73°F, 22 hr	21	%	
158°F, 22 hr	80	%	
194°F, 70 hr	89	%	
257°F, 70 hr	67	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	73		
Shore A, 5 sec, Injection Molded	71		
Shore A, 15 sec, Injection Molded	70		

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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	4.0	%	
Flow : 230°F, 1008 hr	12	%	
Across Flow : 100% Strain 230°F, 1008 hr	0.79	%	
Flow : 100% Strain 230°F, 1008 hr	5.3	%	
Across Flow : 100% Strain 257°F, 6.61 in	0.0	%	
Across Flow : 257°F, 168 hr	-1.8	%	
Flow : 257°F, 168 hr	10	%	
Flow : 100% Strain 257°F, 168 hr	4.8	%	
Change in Tensile Strain at Break in Air <sup>5</sup>			ISO 188
Across Flow : 230°F, 1008 hr	4.5	%	
Flow : 230°F, 1008 hr	24	%	
Across Flow : 257°F, 168 hr	3.9	%	
Flow : 257°F, 168 hr	20	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr <sup>6</sup>	1.7		
Shore A, 230°F, 1008 hr <sup>7</sup>	3.0		
Shore A, 230°F, 1008 hr <sup>8</sup>	3.2		
Shore A, 257°F, 168 hr <sup>6</sup>	0.70		
Shore A, 257°F, 168 hr <sup>7</sup>	1.5		
Shore A, 257°F, 168 hr <sup>8</sup>	1.9		
<b>Fill Analysis</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Apparent Viscosity (392°F, 206 sec <sup>-1</sup> )	370	Pa·s	ASTM D3835

### Legal Statement

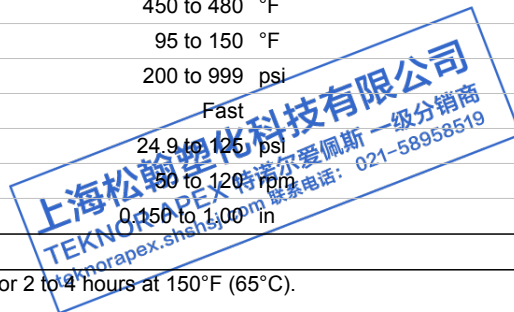
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### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	421 to 441	°F
Middle Temperature	430 to 460	°F
Front Temperature	441 to 469	°F
Nozzle Temperature	450 to 480	°F
Processing (Melt) Temp	450 to 480	°F
Mold Temperature	95 to 150	°F
Injection Pressure	200 to 999	psi
Injection Rate	Fast	
Back Pressure	24.9 to 125	psi
Screw Speed	50 to 120	rpm
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).



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### 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

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