



Sarlink® TPE ME-2470 BLK 111

Teknor Apex Company - Thermoplastic Elastomer

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 ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	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 ²			ISO 37
Across Flow : 100% Strain	368	psi	
Flow : 100% Strain	550	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	1650	psi	
Flow : Break	870	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	740	%	
Flow : Break	420	%	
Tear Strength ³			ISO 34-1
Across Flow	210	lbf/in	
Flow	250	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	21	%	
158°F, 22 hr	80	%	
194°F, 70 hr	89	%	
257°F, 70 hr	87	%	
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 ⁵			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 ⁵			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 ⁶	1.7		
Shore A, 230°F, 1008 hr ⁷	3.0		
Shore A, 230°F, 1008 hr ⁸	3.2		
Shore A, 257°F, 168 hr ⁶	0.70		
Shore A, 257°F, 168 hr ⁷	1.5		
Shore A, 257°F, 168 hr ⁸	1.9		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	370	Pa·s	ASTM D3835

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).

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