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TEKNOR APEX

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	• Bondability • Durable • Good Flow • Good Melt Strength • Good Mold Release	• Good Moldability • Good Processability • Good Processing Stability • Light Stabilized • Low Density	• Low Flow • Low Specific Gravity • Medium Hardness • 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/cm³	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	207	lbf/in	
Flow	254	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	%	

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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		
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]	3.2		
Shore A, 230°F, 1008 hr [7]	3.0		
Shore A, 230°F, 1008 hr [8]	1.7		
Shore A, 257°F, 168 hr [6]	1.9		
Shore A, 257°F, 168 hr [7]	1.5		
Shore A, 257°F, 168 hr [8]	0.70		
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	400 to 440	°F
Middle Temperature	400 to 440	°F
Front Temperature	400 to 440	°F
Nozzle Temperature	400 to 440	°F
Processing (Melt) Temp	400 to 440	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 999	psi
Injection Rate	Fast	
Back Pressure	24.9 to 125	psi

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Injection	Nominal Value	Unit
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] 15 sec

[7] 5 sec

[8] 1 sec