

Sarlink® TPE ME-2470 BLK 111

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink®TPE ME-2470 BLK 111 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding. Sarlink®The main characteristics of TPE ME-2470 BLK 111 are: sunlight resistance.

Typical application areas include:

Automotive Industry

Hose

Handle

General Information			
Features	Low Specific Gravity		
	Sunlight Resistant		
	Without Fillers		
	Low density		
	Light stabilization		
	Low liquidity		
	Medium hardness		
	UV absorption		
Uses	Pipe fittings		
	Car interior parts		
	Car interior equipment		
	Automotive exterior parts		
	Car exterior decoration		
	Soft handle		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	73		ISO 868
Shore A, 5 seconds, injection molding	71		ISO 868
Shore A, 15 seconds, injection molding	70		ISO 868

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 ¹			ISO 37
Transverse flow: 100% strain	2.54	MPa	ISO 37
Flow: 100% strain	3.79	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	11.4	MPa	ISO 37
Flow: Fracture	6.00	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	740	%	ISO 37
Flow: Fracture	420	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	36	kN/m	ISO 34-1
Flow	45	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	21	%	ISO 815
70°C, 22 hr	80	%	ISO 815
90°C, 70 hr	89	%	ISO 815
125°C, 70 hr	87	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁶			ISO 188
Transverse flow: 110°C, 1008 hr	4.0	%	ISO 188
Flow: 110°C, 1008 hr	12	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	0.79	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	5.3	%	ISO 188
Transverse flow: 100% strain 125°C, 168 mm	0.0	%	ISO 188
Transverse flow: 125°C, 168 hr	-1.8	%	ISO 188
Flow: 125°C, 168 hr	10	%	ISO 188
Flow: 100% strain 125°C, 168 hr	4.8	%	ISO 188
Change in Tensile Strain at Break in Air ⁷			ISO 188
Transverse flow: 110°C, 1008 hr	4.5	%	ISO 188
Flow: 110°C, 1008 hr	24	%	ISO 188
Transverse flow: 125°C, 168 hr	3.9	%	ISO 188
Flow: 125°C, 168 hr	20	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support a, 110°C, 1008 hr ⁸	1.7		ISO 188
Support a, 110°C, 1008 hr ⁹	3.0		ISO 188
Support a, 110°C, 1008 hr ¹⁰	3.2		ISO 188
Support a, 125°C, 168 hr ¹¹	0.70		ISO 188

Support a, 125°C, 168 hr ¹²	1.5		ISO 188
Support a, 125°C, 168 hr ¹³	1.9		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	370	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Rear Temperature	216 - 227	°C	
Middle Temperature	221 - 238	°C	
Front Temperature	227 - 243	°C	
Nozzle Temperature	232 - 249	°C	
Processing (Melt) Temp	232 - 249	°C	
Mold Temperature	35.0 - 65.6	°C	
Injection Pressure	1.38 - 6.89	MPa	
Injection Rate	Fast		
Back Pressure	0.172 - 0.862	MPa	
Screw Speed	50 - 120	rpm	
Cushion	3.81 - 25.4	mm	
Injection instructions			
Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	171 - 193	°C	
Cylinder Zone 2 Temp.	182 - 204	°C	
Cylinder Zone 3 Temp.	188 - 210	°C	
Cylinder Zone 4 Temp.	193 - 216	°C	
Cylinder Zone 5 Temp.	193 - 216	°C	
Adapter Temperature	199 - 227	°C	
Die Temperature	199 - 227	°C	
Take-Off Roll	32.2 - 48.9	°C	
Extrusion instructions			
Thermoforming Mold Temperature: 90 to 120°F			
NOTE			
1.	Type 1, 510mm/min		
2.	Type 1, 510mm/min		
3.	Type 1, 510mm/min		
4.	B method, right angle specimen (without cut), 510mm/min		
5.	Type a		
6.	Type 1		
7.	Type 1		
8.	1 sec		
9.	5 sec		
10.	15 sec		
11.	1 sec		

12.	5 sec
13.	15 sec

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