

Sarlink® TPE ML-1140B BLK (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink ML-1100 is a general purpose thermoplastic elastomer series, available in NAT and BLK designed for automotive interior applications. Sarlink ML-1140B BLK is a low hardness, high density, filled grade suitable for injection molding.

General			
Material Status	Preliminary Data		
Availability	 Africa & Middle East Asia Pacific	 Europe Latin America	North America
Features	Chemical ResistantFilledGood AdhesionGood Flexibility	Good MoldabilityGood Tear StrengthGood ToughnessHigh Density	 High Specific Gravity Low Flow Low Hardness Resilient
Uses	Automotive ApplicationsAutomotive Interior PartsFlexible Grips	General PurposeGrommetsKnobs	Rubber ReplacementSoft Touch Applications
RoHS Compliance	 RoHS Compliant 		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		

AST	TM & ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow : 100% Strain	116	psi	
Flow : 100% Strain	174	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	624	psi	
Flow : Break	493	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	890	%	
Flow : Break	750	%	
Tear Strength ³			ISO 34-1
Across Flow	95	lbf/in	
Flow	100	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	22	%	
158°F, 22 hr	37	%	公司
194°F, 70 hr	69	% 古有 PD	版分销商
257°F, 70 hr	ME 194	1% HIT	-58958510
Hardness	Nominal Value	Unit ala: 02	Test Method
Shore Hardness	22 37 69 Nominal Value TEKNOR APEX TEKNOR APEX TEKNOR APEX 1 1 1 1 1 1 1 1 1 1	m Bea	ISO 868
Shore A, 1 sec, Injection Molded	TEKNOT A4		
Shore A, 5 sec, Injection Molded	teknore. 41		
Shore A, 15 sec, Injection Molded	39		

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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	23	%	
Flow : 230°F, 1008 hr	35	%	
Across Flow : 100% Strain 230°F, 1008 hr	2.5	%	
Flow : 100% Strain 230°F, 1008 hr	0.0	%	
Across Flow : 257°F, 168 hr	26	%	
Flow : 257°F, 168 hr	35	%	
Across Flow : 100% Strain 257°F, 168 hr	-3.8	%	
Flow : 100% Strain 257°F, 168 hr	-0.83	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	10	%	
Flow : 230°F, 1008 hr	18	%	
Across Flow : 257°F, 168 hr	15	%	
Flow : 257°F, 168 hr	25	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	-0.60		
Shore A, 230°F, 1008 hr ⁷	-0.70		
Shore A, 230°F, 1008 hr ⁸	-2.2		
Shore A, 257°F, 168 hr ⁷	0.10		
Shore A, 257°F, 168 hr ⁶	0.10		
Shore A, 257°F, 168 hr ⁸	-1.1		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	134	Pa∙s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J1885
Delta E - 1250 kJ	0.280		
Delta E - 2500 kJ	0.220		

Legal Statement

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Processing Information			
Injection	Nominal Value Unit		
Rear Temperature	340 to 380 °F		
Middle Temperature	350 to 390 °F		
Front Temperature	360 to 400 °F 日 公 早 」		
Nozzle Temperature	370 to 410 :5 to 410		
Processing (Melt) Temp	370 to 410 °F + 77 10 150 °F + 77 10 150 °F + 75 100 °F +		
Mold Temperature	1505 PP/16日后:		
Injection Pressure	20016 1000 psi		
Injection Rate	TEK Moderate-Fast		
Back Pressure	teknov 25.0 to 50.0 psi		
Screw Speed	50 to 100 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

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 5 sec

⁷ 15 sec

⁸ 1 sec

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