

Sarlink® TPE ML-1190B 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-1190B BLK is a high hardness, high density, filled grade suitable for injection molding.

Seneral			
Material Status	Preliminary Data		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	 Chemical Resistant Filled Good Adhesion Good Flexibility Good Moldability 	 Good Processability Good Tear Strength Good Toughness High Density High Flow 	 High Hardness High Specific Gravity Resilient
Uses	Automotive ApplicationsAutomotive Interior PartsFlexible Grips	General PurposeGrommetsKnobs	 Rubber Replacement Soft Touch Applications
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density	1.17	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress ²			ISO 37		
Across Flow : 100% Strain	551	psi			
Flow : 100% Strain	738	psi			
Tensile Stress ²			ISO 37		
Across Flow : Break	986	psi			
Flow : Break	1130	psi			
Tensile Elongation ²			ISO 37		
Across Flow : Break	600	%			
Flow : Break	550	%			
Tear Strength ³			ISO 34-1		
Across Flow	220	lbf/in			
Flow	180	lbf/in			
Compression Set ⁴			ISO 815		
73°F, 22 hr	42	% 技有服	公司		
158°F, 22 hr	64	% 井有师	山台销商		
194°F, 70 hr	174	1%+JX	58958519		
257°F, 70 hr	11前至96	诸尔爱 021			
Hardness	F Nomina Value	Unit	Test Method		
Shore Hardness	42 64 96 Find Moning Value TEKNOR teknorapex.shanei 91		ISO 868		
Shore A, 1 sec, Injection Molded	teknorap 91				
Shore A, 5 sec, Injection Molded	89				
Shore A, 15 sec, Injection Molded	88				

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Thursday, June 29, 2017

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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	-4.1	%	
Flow : 230°F, 1008 hr	-8.6	%	
Across Flow : 100% Strain 230°F, 1008 hr	8.3	%	
Flow : 100% Strain 230°F, 1008 hr	12	%	
Across Flow : 257°F, 168 hr	-1.8	%	
Flow : 257°F, 168 hr	-8.8	%	
Across Flow : 100% Strain 257°F, 168 hr	7.7	%	
Flow : 100% Strain 257°F, 168 hr	13	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	-8.5	%	
Flow : 230°F, 1008 hr	-25	%	
Across Flow : 257°F, 168 hr	-4.7	%	
Flow : 257°F, 168 hr	-23	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	1.5		
Shore A, 230°F, 1008 hr ⁷	1.9		
Shore A, 230°F, 1008 hr ⁸	2.0		
Shore A, 257°F, 168 hr ⁶	1.6		
Shore A, 257°F, 168 hr ⁷	2.2		
Shore A, 257°F, 168 hr ⁸	2.6		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	141	Pa∙s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J1885
BLK Only Delta E - 1250 kJ	0.230		
BLK only Delta E - 2500 kJ	0.500		

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			
Nozzle Temperature	370 to 410 °F+E			
Processing (Melt) Temp	370 to 410 °F 57 57 58958519 370 to 410 °F 57 58958519 370 to 410 °F 500 500 021-58958519 200 to 1000 Dsi			
Mold Temperature	60 to 905 PF			
Injection Pressure	1000 bsi			
Injection Rate	TEK Moderate-East			
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 1 sec

⁷ 5 sec

⁸ 15 sec

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