

Shore A, 15 sec, Injection Molded

Sarlink® TPE ML-1660B BLK (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General	Inform	ation
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Product Description

Sarlink ML-1600 series is a high performance, high flow thermoplastic elastomer series, available in NAT and BLK designed for automotive interior applications. Sarlink ML-1660B BLK is a medium hardness, medium density grade with excellent surface appearance suitable for injection molding.

General			
Material Status	Preliminary Data		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Chemical ResistantFilledGood AdhesionGood FlexibilityGood Moldability	Good ProcessabilityGood Surface FinishGood Tear StrengthGood ToughnessMedium Density	Medium FlowMedium HardnessResilient
Uses	Automotive ApplicationsAutomotive Interior PartsFlexible Grips	 Grommets Knobs 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	0.990	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	16	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow: 100% Strain	236	psi	
Flow: 100% Strain	325	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	972	psi	
Flow : Break	841	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	860	%	
Flow : Break	740	%	
Tear Strength ³			ISO 34-1
Across Flow	130	lbf/in	
Flow	140	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	22	%	公司
158°F, 22 hr	43	% 技有限 網技有限 % 不是佩斯 021	四分销商
194°F, 70 hr	165	% 1× 原斯	58958519
257°F, 70 hr	92	治尔爱 加 021	
Hardness	NominaPValue	ッ を を が で で で で の と の と の と の に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に 。 に に に に に に に に に に に に に	Test Method
Shore Hardness	Lieknorapex.shshsl		ISO 868
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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	8.3	%	
Flow: 230°F, 1008 hr	6.2	%	
Across Flow: 100% Strain 230°F, 1008 hr	3.0	%	
Flow: 100% Strain 230°F, 1008 hr	9.0	%	
Across Flow: 257°F, 168 hr	12	%	
Flow : 257°F, 168 hr	3.6	%	
Across Flow: 100% Strain 257°F, 168 hr	5.5	%	
Flow : 100% Strain 257°F, 168 hr	9.8	%	
Change in Tensile Strain at Break in Air 5			ISO 188
Across Flow: 230°F, 1008 hr	6.8	%	
Flow: 230°F, 1008 hr	6.7	%	
Across Flow: 257°F, 168 hr	9.5	%	
Flow : 257°F, 168 hr	7.5	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	3.4		
Shore A, 230°F, 1008 hr ⁷	4.1		
Shore A, 230°F, 1008 hr 8	3.6		
Shore A, 257°F, 168 hr 7	4.4		
Shore A, 257°F, 168 hr ⁶	3.8		
Shore A, 257°F, 168 hr 8	3.8		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	113	Pa·s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J1885
Delta E - 1250 kJ	0.900		
Delta E - 2500 kJ	1.10		

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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 +5 19 \	
Processing (Melt) Temp	370 to 410 °F 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Mold Temperature	72 10 1505 年	
Injection Pressure	200 to 1000 psi	
Injection Rate	TEK Moderate Fast	
Back Pressure	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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