

Shore A, 15 sec, Injection Molded

Sarlink® TPE ML-1130B BLK (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General	Inform	ation
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Product Description

Sarlink ML-1100 is a general purpose thermoplastic elastomer series, available in NAT and BLK designed for automotive interior applications. Sarlink ML-1130B BLK is a low hardness, high density, filled grade suitable for injection molding.

General			
Material Status	Preliminary Data		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Chemical ResistantFilledGood AdhesionGood Flexibility	Good MoldabilityGood Tear StrengthGood ToughnessHigh Density	High Specific GravityLow FlowLow HardnessResilient
Uses	Automotive ApplicationsAutomotive Interior PartsFlexible Grips	 General Purpose Grommets Knobs	Rubber ReplacementSoft 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	1.19	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow: 100% Strain	79.8	psi	
Flow: 100% Strain	146	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	479	psi	
Flow : Break	305	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	860	%	
Flow : Break	470	%	
Tear Strength ³			ISO 34-1
Across Flow	70	lbf/in	
Flow	93	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	15	%	
158°F, 22 hr	39	%	公司
194°F, 70 hr	71	%结有的	地分销商
257°F, 70 hr	#E 194	% 温温斯	58958513
Hardness	Nominal Value Normanal Value TEKNOR APEX TEKNOR APEX	Unit _{開語} 。02	Test Method
Shore Hardness	LIBIOR APELO	W HX	ISO 868
Shore A, 1 sec, Injection Molded	TEKNO, Shanes		
Shore A, 5 sec, Injection Molded	teknor 30		

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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	70	%	
Flow: 230°F, 1008 hr	120	%	
Across Flow: 100% Strain 230°F, 1008 hr	-1.8	%	
Flow: 100% Strain 230°F, 1008 hr	-16	%	
Across Flow: 257°F, 168 hr	73	%	
Flow : 257°F, 168 hr	130	%	
Across Flow: 100% Strain 257°F, 168 hr	-7.3	%	
Flow : 100% Strain 257°F, 168 hr	-20	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow: 230°F, 1008 hr	23	%	
Flow: 230°F, 1008 hr	99	%	
Across Flow: 257°F, 168 hr	45	%	
Flow: 257°F, 168 hr	110	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	-2.2		
Shore A, 230°F, 1008 hr	-2.1		
Shore A, 230°F, 1008 hr ⁷	-3.6		
Shore A, 257°F, 168 hr 8	-2.9		
Shore A, 257°F, 168 hr ⁶	-3.2		
Shore A, 257°F, 168 hr ⁷	-3.5		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	177	Pa·s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J1885
For BLK grade only: Delta E - 1250 kJ	0.380		
For BLK grade only: Delta E - 2500 kJ	0.400		

Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information		
njection	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 共	
Processing (Melt) Temp	370 to 410, PF	
Mold Temperature	370 to 410 °F 技术	
Injection Pressure	-20010 1000 031	
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 1 sec
- ⁸ 15 sec

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