

Shore A, 15 sec, Injection Molded

Sarlink® TPE ML-1140N NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

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Prod	luct	Descri	ption
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Sarlink ML-1100 is a general purpose thermoplastic elastomer series, available in NAT and BLK designed for automotive interior applications. Sarlink ML-1140N NAT 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 ColorabilityGood Flexibility	Good MoldabilityGood Tear StrengthGood ToughnessHigh DensityHigh Specific Gravity	Low FlowLow HardnessResilientSunlight Resistant
Uses	Automotive ApplicationsAutomotive Interior PartsFlexible Grips	General PurposeGrommetsKnobs	Rubber ReplacementSoft Touch Applications
RoHS Compliance	 RoHS Compliant 		
Appearance	Natural Color		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & 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	%	公司	
158°F, 22 hr	37	%.共有原	14销商	
194°F, 70 hr	69	1000年	58958519	
257°F, 70 hr	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% %技有限 %次爱佩斯 %次爱佩斯 021-		
Hardness	NominaPValue	Unit	Test Method	
Shore Hardness	TEKNOR Spex. 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	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

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		
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	
Processing (Melt) Temp	370 to 410 °F	
Mold Temperature	77 to 150 °F	
Injection Pressure	200 to 1000 psi	
Injection Rate	Moderate-Fast 15年 15年 15日	
Back Pressure	25.0 to 50.0 psi	
Screw Speed	Moderate-Fast 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cushion Injection Notes Draing in not present allowance if mainture is a prob	0.450 to 1.00 in	
Injection Notes	TEKNarapex.sns	

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

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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
⁴ Type A ⁵ Type 1 ⁶ 5 sec
⁶ 5 sec
⁷ 15 sec
⁸ 1 sec

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