

Sarlink® TPE ML-1640N NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

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-1640N NAT is a low 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 Resistant Filled Good Adhesion Good Flexibility Good Moldability 	 Good Processability Good Surface Finish Good Tear Strength Good Toughness High Flow 	 Low Hardness Medium Density Resilient
Uses	Automotive ApplicationsAutomotive Interior PartsFlexible Grips	GrommetsKnobsRubber Replacement	Soft 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	1.00	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress ²			ISO 37	
Across Flow : 100% Strain	122	psi		
Flow : 100% Strain	183	psi		
Tensile Stress ²			ISO 37	
Across Flow : Break	827	psi		
Flow : Break	624	psi		
Tensile Elongation ²			ISO 37	
Across Flow : Break	980	%		
Flow : Break	820	%		
Tear Strength ³			ISO 34-1	
Across Flow	89	lbf/in		
Flow	100	lbf/in		
Compression Set ⁴			ISO 815	
73°F, 22 hr	16	%技有限	公司	
158°F, 22 hr	33	% # 有 \$ \$	四分销商	
194°F, 70 hr	HB 61	Tool 1X	58958519	
257°F, 70 hr	90	诸尔爱加 021		
Hardness	E Nominal Value TEKNOR SING		Test Method	
Shore Hardness	TEKNON		ISO 868	
Shore A, 1 sec, Injection Molded	TEKNOR teknorapex.shshsi			
Shore A, 5 sec, Injection Molded	41			
Shore A, 15 sec, Injection Molded	39			

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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 purchasers assume all risks and liability for the results of use of the products, including use in accordance with selfer'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 by others. There is no warranty of merchantability and there are no other warranties for the products described.

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ging	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	33	%	
Across Flow : 100% Strain 230°F, 1008 hr	0.96	%	
Flow : 100% Strain 230°F, 1008 hr	3.0	%	
Across Flow : 257°F, 168 hr	22	%	
Flow : 257°F, 168 hr	33	%	
Across Flow : 100% Strain 257°F, 168 hr	2.3	%	
Flow : 100% Strain 257°F, 168 hr	7.5	%	
Change in Tensile Strain at Break in Air 5			ISO 188
Across Flow : 230°F, 1008 hr	11	%	
Flow : 230°F, 1008 hr	15	%	
Across Flow : 257°F, 168 hr	27	%	
Flow : 257°F, 168 hr	18	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	2.5		
Shore A, 230°F, 1008 hr ⁷	3.0		
Shore A, 230°F, 1008 hr ⁸	0.30		
Shore A, 257°F, 168 hr ⁷	1.8		
Shore A, 257°F, 168 hr ⁶	1.4		
Shore A, 257°F, 168 hr ⁸	0.90		
ill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	122	Pa∙s	ASTM D3835

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		
Processing (Melt) Temp	370 to 410 °F		
Mold Temperature	77 to 150 °F		
Injection Pressure	200 to 1000 psi		
Injection Rate	Moderate-Fast		
Back Pressure	25.0 10 50.0 psi 101-589589		
Screw Speed	200 to 1000 pst Moderate-Fast 25.0 to 50.0 pst 30 to 1000 pm state 0.150 to 1000 in		
Cushion			
njection Notes	TEKNOrex.shells		

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

⁵ Type 1

⁶ 5 sec

⁷ 15 sec

⁸ 1 sec

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