

Sarlink® TPE ML-1660N NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

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-1660N NAT 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	• Europe • Latin America	• North America
Features	• Chemical Resistant • Filled • Good Adhesion • Good Flexibility	• Good Moldability • Good Surface Finish • Good Tear Strength • Good Toughness	• Medium Density • Medium Flow • Medium Hardness • Resilient
Uses	• Automotive Applications • Automotive Interior Parts • Flexible Grips	• Grommets • Knobs • Rubber 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	0.990	g/cm ³	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	%	
158°F, 22 hr	43	%	
194°F, 70 hr	65	%	
257°F, 70 hr	92	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	62		
Shore A, 5 sec, Injection Molded	60		
Shore A, 15 sec, Injection Molded	58		

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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

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 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

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).



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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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