

Shore A, 15 sec, Injection Molded

Sarlink® TPE ML-1650B BLK (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

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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-1650B 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		

AS	TM & 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)	13	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow: 100% Strain	171	psi	
Flow: 100% Strain	248	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	914	psi	
Flow : Break	725	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	920	%	
Flow : Break	780	%	
Tear Strength ³			ISO 34-1
Across Flow	110	lbf/in	
Flow	120	lbf/in	_
Compression Set ⁴			ISO 815
73°F, 22 hr	20	%	☆副│
158°F, 22 hr	37	%共有原	四分销商 \
194°F, 70 hr	4A 63	% 7	58958519
257°F, 70 hr	92	%技有限 粉技有限 淺水爱顺斯 021-	
Hardness	NominaPValue	Unit	Test Method
Shore Hardness	TEKNOT apex. shshslsteknorapex.		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	13	%	
Flow: 230°F, 1008 hr	11	%	
Across Flow: 100% Strain 230°F, 1008 hr	3.5	%	
Flow: 100% Strain 230°F, 1008 hr	9.2	%	
Across Flow: 257°F, 168 hr	12	%	
Flow: 257°F, 168 hr	12	%	
Across Flow: 100% Strain 257°F, 168 hr	4.0	%	
Flow: 100% Strain 257°F, 168 hr	12	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow: 230°F, 1008 hr	6.0	%	
Flow : 230°F, 1008 hr	7.8	%	
Across Flow: 257°F, 168 hr	9.3	%	
Flow: 257°F, 168 hr	9.3	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	3.0		
Shore A, 230°F, 1008 hr ⁷	3.6		
Shore A, 230°F, 1008 hr 8	2.7		
Shore A, 257°F, 168 hr ⁷	3.0		
Shore A, 257°F, 168 hr ⁶	2.6		
Shore A, 257°F, 168 hr ⁸	2.6		
Fill Analysis	Nominal Value		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	0.750		
Delta E - 2500 kJ	0.650		
Pro	cessing Information		
njection	Nominal Value	Unit	
Rear Temperature	340 to 380	°F	
Middle Temperature	350 to 390	°F	
Front Temperature	360 to 400		
Nozzle Temperature	370 to 410		
Processing (Melt) Temp	370 to 410		
Mold Temperature	77 to 150		
Injection Pressure	200 to 1000		
Injection Rate	Moderate-Fast	P	
Back Pressure	25.0 to 50.0	nsi	
0	50 t- 400		
Cushion	0 150 to 1 00	in	尼 公普商
Injection Notes	0.130 10 100	科技物	是公司 第
Cushion Injection Notes Drying is not necessary. However, if moisture is a problem, dry to	the pellets for 2 to 4 hours and 30 F (6) TEKNOR APEX	5%O(爱佩斯)	4-5b ²²

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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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