

Sarlink® TPE ML-1160B BLK (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Sarlink ML-1100 is a general purpose thermoplastic elastomer series, available in NAT and BLK designed for automotive interior applications. Sarlink ML-1160B BLK is a medium hardness, high density, filled grade 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 Mold Release	• Good Moldability • Good Processability • Good Surface Finish • Good Tear Strength	• High Density • High Specific Gravity • Medium Flow • Medium Hardness
Uses	• Automotive Applications • Automotive Interior Parts	• General Purpose • Grommets	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow : 100% Strain	213	psi	
Flow : 100% Strain	294	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	754	psi	
Flow : Break	682	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	820	%	
Flow : Break	720	%	
Tear Strength ³			ISO 34-1
Across Flow	130	lbf/in	
Flow	130	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	29	%	
158°F, 22 hr	46	%	
194°F, 70 hr	75	%	
257°F, 70 hr	93	%	
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	59		

上海松翰塑化科技有限公司
 TEKNOR APEX 特诺尔爱佩斯 一级分销商
 teknorapex.shshs.com 联系电话: 021-58958519

Revision Date: 2/24/2017

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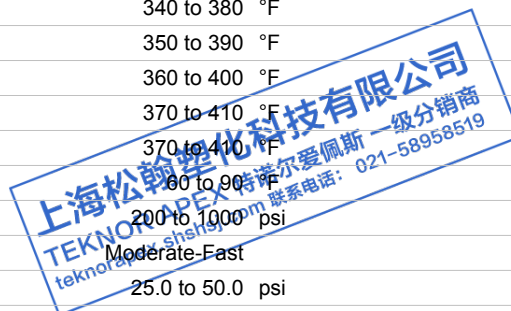
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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	12	%	
Flow : 230°F, 1008 hr	6.4	%	
Across Flow : 100% Strain 230°F, 1008 hr	9.5	%	
Flow : 100% Strain 230°F, 1008 hr	11	%	
Across Flow : 257°F, 168 hr	-9.6	%	
Flow : 257°F, 168 hr	0.0	%	
Across Flow : 100% Strain 257°F, 168 hr	5.4	%	
Flow : 100% Strain 257°F, 168 hr	10	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	7.0	%	
Flow : 230°F, 1008 hr	5.5	%	
Across Flow : 257°F, 168 hr	12	%	
Flow : 257°F, 168 hr	8.3	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	1.2		
Shore A, 230°F, 1008 hr ⁷	1.3		
Shore A, 230°F, 1008 hr ⁸	1.6		
Shore A, 257°F, 168 hr ⁶	0.10		
Shore A, 257°F, 168 hr ⁷	1.1		
Shore A, 257°F, 168 hr ⁸	1.6		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	128	Pa·s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method
Xenon Weatherometer			SAE J1885
Delta E - 1250 kJ BLK only	0.500		
Delta E - 2500 kJ BLK only	0.300		
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	60 to 90	°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	

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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 1 sec

⁷ 5 sec

⁸ 15 sec

Teknor Apex Company Corporate Headquarters

*In U.S. for Vinyls, TPEs, Colorants,
Engineered Thermoplastics (Chem Polymer)*

505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

info@teknorapex.com

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

上海松翰塑化科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.shshsj.com 联系电话: 021-58958519

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