Sarlink® TPE ME-2390B-01 BLK

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Sarlink ME-2390B-01 BLK is a general purpose Thermoplastic Elastomer used in automotive applications. Sarlink ME-2390B-01 BLK is a high hardness, low density grade exhibiting good moldability characteristics. This grade is suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose • Good Mold Release • Good Moldability • Good Processability	• Good Processing Stability • High Hardness • Light Stabilized • Low Specific Gravity	• Lubricated • Medium Flow
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • General Purpose	• Grommets • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	609	psi	
Flow : 100% Strain	796	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	2390	psi	
Flow : Break	1530	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	820	%	
Flow : Break	620	%	
Tear Strength [3]			ISO 34-1
Across Flow	280	lbf/in	
Flow	300	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	33	%	
158°F, 22 hr	51	%	
194°F, 70 hr	66	%	
257°F, 70 hr	96	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	90		
Shore A, 5 sec, Injection Molded	89		
Shore A, 15 sec, Injection Molded	88		

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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	-7.1	%	
Flow : 230°F, 1008 hr	-16	%	
Across Flow : 100% Strain 230°F, 1008 hr	14	%	
Flow : 100% Strain 230°F, 1008 hr	14	%	
Across Flow : 257°F, 168 hr	-9.2	%	
Flow : 257°F, 168 hr	-18	%	
Flow : 100% Strain 257°F, 168 hr	14	%	
Across Flow : 100% Strain 334°F, 125 hr	2.8	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	1.3		
Shore A, 230°F, 1008 hr [7]	1.8		
Shore A, 230°F, 1008 hr [8]	2.2		
Shore A, 257°F, 168 hr [6]	-0.10		
Shore A, 257°F, 168 hr [7]	0.70		
Shore A, 257°F, 168 hr [8]	1.0		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	222	Pa·s	ASTM D3835

Legal Statement

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	420 to 440	°F
Mold Temperature	95 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	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] Instant

[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

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