



Sarlink® TPE ME-2340B-01 BLK

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink ME-2340B-01 BLK is a general purpose thermoplastic elastomer used in automotive molding applications, including exterior. Sarlink ME-2340B-01 BLK is a low hardness, low density, UV stabilized grade exhibiting superior compression set and chemical resistance.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Filled	• Good Processing Stability	• Medium Flow
	• Good Mold Release	• Low Density	• Medium-low Viscosity
	• Good Moldability	• Low Hardness	• Slip
	• Good Processability	• Low Specific Gravity	• UV Stabilized
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • Rubber Replacement	• Seals
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°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	116	psi	
Flow : 100% Strain	199	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	783	psi	
Flow : Break	493	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	870	%	
Flow : Break	670	%	
Tear Strength ³			ISO 34-1
Across Flow	87	lbf/in	
Flow	100	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	18	%	
158°F, 22 hr	30	%	
194°F, 70 hr	55	%	
257°F, 70 hr	83	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	41		
Shore A, 5 sec, Injection Molded	40		
Shore A, 15 sec, Injection Molded	39		

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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	39	%	
Flow : 230°F, 1008 hr	21	%	
Across Flow : 100% Strain 230°F, 1008 hr	11	%	
Flow : 100% Strain 230°F, 1008 hr	3.7	%	
Across Flow : 257°F, 168 hr	33	%	
Flow : 257°F, 168 hr	32	%	
Across Flow : 100% Strain 257°F, 168 hr	13	%	
Flow : 100% Strain 257°F, 168 hr	-0.73	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	15	%	
Flow : 230°F, 1008 hr	22	%	
Across Flow : 257°F, 168 hr	14	%	
Flow : 257°F, 168 hr	29	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	4.2		
Shore A, 230°F, 1008 hr ⁷	4.5		
Shore A, 230°F, 1008 hr ⁸	3.2		
Shore A, 257°F, 168 hr ⁷	4.0		
Shore A, 257°F, 168 hr ⁶	3.7		
Shore A, 257°F, 168 hr ⁸	2.7		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	148	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	420 to 460	°F
Processing (Melt) Temp	420 to 460	°F
Mold Temperature	60 to 90	°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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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	400 to 440	°F
Cylinder Zone 2 Temp.	400 to 440	°F
Cylinder Zone 3 Temp.	400 to 440	°F
Cylinder Zone 4 Temp.	400 to 440	°F
Cylinder Zone 5 Temp.	400 to 440	°F
Die Temperature	400 to 440	°F

Extrusion Notes
Screw Speed: 30 to 100 rpm

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