+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE EE-1240

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink EE-1240 is a general purpose thermoplastic elastomer with good elastic properties designed for exterior automotive applications.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Good Colorability • Good Processability	• High Density • High Specific Gravity • Low Flow	• Low Hardness • Lubricated • Slip
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim	• Automotive Interior Parts • General Purpose • Grommets	• Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Black • Colors Available	• Natural Color • Opaque	
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	100	psi	
Flow : 100% Strain	167	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	783	psi	
Flow : Break	493	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	890	%	
Flow : Break	660	%	
Tear Strength [3]			ISO 34-1
Across Flow	85.7	lbf/in	
Flow	108	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	11	%	
158°F, 22 hr	28	%	
194°F, 70 hr	56	%	
257°F, 70 hr	76	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	45		
Shore A, 5 sec, Injection Molded	42		
Shore A, 15 sec, Injection Molded	40		

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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	30	%	
Flow : 230°F, 1008 hr	47	%	
Across Flow : 100% Strain 230°F, 1008 hr	7.3	%	
Flow : 100% Strain 230°F, 1008 hr	-3.5	%	
Across Flow : 257°F, 168 hr	39	%	
Flow : 257°F, 168 hr	56	%	
Across Flow : 100% Strain 257°F, 168 hr	12	%	
Flow : 100% Strain 257°F, 168 hr	-3.5	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	-1.1	%	
Flow : 230°F, 1008 hr	20	%	
Across Flow : 257°F, 168 hr	3.0	%	
Flow : 257°F, 168 hr	27	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	4.0		
Shore A, 230°F, 1008 hr [7]	3.3		
Shore A, 230°F, 1008 hr [8]	2.2		
Shore A, 257°F, 168 hr [6]	0.90		
Shore A, 257°F, 168 hr [7]	0.60		
Shore A, 257°F, 168 hr [8]	0.20		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	258	Pa·s	ASTM D3835

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	440 to 480	°F
Cylinder Zone 2 Temp.	440 to 480	°F
Cylinder Zone 3 Temp.	440 to 480	°F
Cylinder Zone 4 Temp.	440 to 480	°F
Cylinder Zone 5 Temp.	440 to 480	°F
Die Temperature	440 to 480	°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