Sarlink® TPE EE-1255

Teknor Apex Company - Thermoplastic Elastomer

Friday, April 3, 2026

General Information

Product Description

Sarlink EE-1255 is a general purpose thermoplastic elastomer used in automotive applications, including exterior. Sarlink EE-1255 is a medium hardness, high density, lubricated grade exhibiting good colorability and processability. This grade can be processed by injection molding and extrusion.

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

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	152	psi	
Flow : 100% Strain	328	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	812	psi	
Flow : Break	421	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	780	%	
Flow : Break	350	%	
Tear Strength [3]			ISO 34-1
Across Flow	99.9	lbf/in	
Flow	123	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	16	%	
158°F, 22 hr	36	%	
194°F, 70 hr	58	%	
257°F, 70 hr	70	%	

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Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	57		
Shore A, 5 sec, Injection Molded	55		
Shore A, 15 sec, Injection Molded	54		

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	8.9	%	
Flow : 230°F, 1008 hr	6.9	%	
Across Flow : 100% Strain 230°F, 1008 hr	6.7	%	
Flow : 100% Strain 230°F, 1008 hr	6.2	%	
Across Flow : 257°F, 168 hr	3.6	%	
Flow : 257°F, 168 hr	3.4	%	
Across Flow : 100% Strain 257°F, 168 hr	1.9	%	
Flow : 100% Strain 257°F, 168 hr	7.1	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	6.7	%	
Flow : 230°F, 1008 hr	14	%	
Across Flow : 257°F, 168 hr	2.7	%	
Flow : 257°F, 168 hr	3.4	%	
Change in Shore Hardness in Air			ISO 188
230°F, 1008 hr [6]	2.1		
Shore A, 230°F, 1008 hr [7]	1.5		
Shore A, 230°F, 1008 hr [8]	2.2		
Shore A, 257°F, 168 hr [7]	-0.50		
Shore A, 257°F, 168 hr [6]	0.60		
Shore A, 257°F, 168 hr [8]	0.90		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	235	Pa·s	ASTM D3835

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	440 to 480	°F
Middle Temperature	440 to 480	°F
Front Temperature	440 to 480	°F
Nozzle Temperature	440 to 480	°F
Processing (Melt) Temp	440 to 480	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi

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Injection	Nominal Value	Unit
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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	420 to 460	°F
Cylinder Zone 2 Temp.	420 to 460	°F
Cylinder Zone 3 Temp.	420 to 460	°F
Cylinder Zone 4 Temp.	420 to 460	°F
Cylinder Zone 5 Temp.	420 to 460	°F
Die Temperature	420 to 460	°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] 1 sec

[8] 15 sec

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