TEKNOR APEX

Sarlink® TPE EE-2272N

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Sarlink TPE EE-2272N is a general purpose thermoplastic elastomer designed for automotive exterior applications. Sarlink TPE EE-2272N is a medium hardness, higher density, light stabilized grade suitable for extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • High Density • High Specific Gravity	• Light Stabilized • Low Flow • Medium Hardness	• Sunlight Resistant • UV Absorbing
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • Automotive Interior Parts	• Grommets • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.18	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	306	psi	
Flow : 100% Strain	421	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1260	psi	
Flow : Break	841	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	790	%	
Flow : Break	620	%	
Tear Strength [3]			ISO 34-1
Across Flow	160	lbf/in	
Flow	180	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	20	%	
158°F, 22 hr	44	%	
194°F, 70 hr	64	%	
257°F, 70 hr	81	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	75		
Shore A, 5 sec, Injection Molded	72		
Shore A, 15 sec, Injection Molded	70		

Revision Date: 6/1/2016

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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	-4.0	%	
Flow : 230°F, 1008 hr	-5.9	%	
Across Flow : 100% Strain 230°F, 1008 hr	18	%	
Flow : 100% Strain 230°F, 1008 hr	16	%	
Across Flow : 257°F, 168 hr	-2.3	%	
Flow : 257°F, 168 hr	-8.6	%	
Across Flow : 100% Strain 257°F, 168 hr	11	%	
Flow : 100% Strain 257°F, 168 hr	12	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	-1.3	%	
Flow : 230°F, 1008 hr	-5.2	%	
Across Flow : 257°F, 168 hr	-2.8	%	
Flow : 257°F, 168 hr	-11	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	4.9		
Shore A, 230°F, 1008 hr [7]	5.0		
Shore A, 230°F, 1008 hr [8]	3.4		
Shore A, 257°F, 168 hr [7]	3.9		
Shore A, 257°F, 168 hr [6]	3.6		
Shore A, 257°F, 168 hr [8]	2.4		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	277	Pa·s	ASTM D3835

Legal Statement

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 400	°F
Cylinder Zone 2 Temp.	390 to 410	°F
Cylinder Zone 3 Temp.	400 to 420	°F
Cylinder Zone 5 Temp.	410 to 430	°F
Die Temperature	420 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm; 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] 5 sec

[7] 15 sec

[8] 1 sec

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