+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE EE-2275N

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink EE-2275 is a general purpose thermoplastic elastomer designed for extruded automotive exterior applications. Sarlink EE-2275 exhibits good elastic properties w sunlight resistance and UV absorbing characteristics.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Filled • Good Colorability • Good Melt Strength • Good Processability	• Good Processing Stability • Good Strength • Halogen Free • High Density • High Specific Gravity	• Light Stabilized • Low Flow • Medium Hardness
Uses	• Automotive Applications	• Automotive Exterior Parts	• Automotive Exterior Trim
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• 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)	1.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	351	psi	
Flow : 100% Strain	466	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1260	psi	
Flow : Break	885	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	750	%	
Flow : Break	580	%	
Tear Strength [3]			ISO 34-1
Across Flow	180	lbf/in	
Flow	199	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	27	%	
158°F, 22 hr	47	%	
194°F, 70 hr	70	%	
257°F, 70 hr	81	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	78		
Shore A, 5 sec, Injection Molded	76		
Shore A, 15 sec, Injection Molded	74		

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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	-2.3	%	
Flow : 230°F, 1008 hr	-3.3	%	
Across Flow : 100% Strain 230°F, 1008 hr	17	%	
Flow : 100% Strain 230°F, 1008 hr	15	%	
Across Flow : 257°F, 168 hr	-4.9	%	
Flow : 257°F, 168 hr	-3.3	%	
Across Flow : 100% Strain 257°F, 168 hr	16	%	
Flow : 100% Strain 257°F, 168 hr	15	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	-2.4	%	
Flow : 230°F, 1008 hr	-5.8	%	
Across Flow : 257°F, 168 hr	-4.9	%	
Flow : 257°F, 168 hr	-7.4	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	-4.9		
Shore A, 230°F, 1008 hr [7]	-5.1		
Shore A, 230°F, 1008 hr [8]	-5.6		
Shore A, 257°F, 168 hr [6]	1.2		
Shore A, 257°F, 168 hr [7]	0.90		
Shore A, 257°F, 168 hr [8]	0.80		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	289	Pa·s	ASTM D3835

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 4 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

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