+135-3858-6433 (GuangDong)
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TEKNOR APEX

Sarlink® TPE EE-2740D NAT

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink TPE EE-2740D NAT is a high performance thermoplastic elastomer designed for automotive applications, including exterior trim. Sarlink TPE EE-2740D NAT is a high hardness low density extrusion grade that is light stabilized and sunlight resistant.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Hardness • Light Stabilized • Low Density	• Low Flow • Low Specific Gravity • Slip	• Sunlight Resistant • Without Fillers
Uses	• Automotive Applications	• Automotive Exterior Trim	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-DC-242 CPN4707 [1]		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties [2]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.9	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	21400	psi	ISO 178
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
Across Flow : 100% Strain	856	psi	
Flow : 100% Strain	972	psi	
Tensile Strength			ASTM D412
Across Flow : Break	1190	psi	
Flow : Break	1310	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	590	%	
Flow : Break	520	%	
Tear Strength - Across Flow	354	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	56	%	
158°F, 22 hr	80	%	
194°F, 70 hr	92	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D, 1 sec, Injection Molded	42		
Shore D, 5 sec, Injection Molded	37		
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air - Across Flow			ISO 188
230°F, 1008 hr	6.1	%	
257°F, 168 hr	9.8	%	

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
230°F, 1008 hr	-15	%	
257°F, 168 hr	-18	%	
Change in Shore Hardness in Air			ISO 188
230°F, 1008 hr	-1.2		
Shore A, 257°F, 168 hr	0.0		

Flammability	Nominal Value	Unit	Test Method
Burning Rate	2.6	in/min	ISO 3795

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	454	Pa·s	ASTM D3835

Additional Information

HEAT DISTORTION TEMP (0.45 MPa) - ASTM D648 = 58
XENON WEATHERING 2500 kJ (SAE J-1960) = 1.48 DELTA E.
MULTI-AXIAL IMPACT @-40C JOULES
GARDNER IMPACT @-30C in-lb (J) = 256

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

Notes

[1] (Formerly approved under Tekron TK-1118M BLK 480)

[2] Typical properties: these are not to be construed as specifications.