Telcar® TELC-87-L832-A

Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

General Information

Product Description

Telcar TELC-87-L832A is a general purpose thermoplastic elastomer designed for wire & cable electrical applications requiring flexibility over a wide temperature range. Telcar TELC-87-L832A is a low density, medium hardness, low halogen content, UV stabilized grade that has good impact resistance and is suitable for extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Impact Resistance • Low Density	• Low Halogen Content • UV Resistant	
Uses	• General Purpose	• Wire & Cable Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.885		ASTM D792
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			ASTM D412
Across Flow : 100% Strain	400	psi	
Flow : 100% Strain	555	psi	
Tensile Strength			ASTM D412
Across Flow : Break	841	psi	
Flow : Break	841	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	540	%	
Flow : Break	320	%	
Tear Strength - Across Flow	211	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	28	%	
158°F, 22 hr	58	%	
194°F, 70 hr	68	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 5 sec)	75		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -76.0	°F	ASTM D746

Revision Date: 11/30/2016

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ISO 188
230°F, 1008 hr	16	%	
257°F, 168 hr	1.3	%	
Change in Tensile Strain at Break in Air			ISO 188
230°F, 1008 hr	6.1	%	
257°F, 168 hr	-6.5	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr	1.5		

Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (73°F, 1 kHz)	2.24		ASTM D150

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	639	Pa·s	ASTM D3835

Additional Information

DEFORMATION T2/T1 - 150C, 2000 GMS (UL-1581) = 0.54

UV STABILIZED = YES

Legal Statement

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330 to 370	°F
Cylinder Zone 2 Temp.	340 to 380	°F
Cylinder Zone 3 Temp.	350 to 390	°F
Cylinder Zone 5 Temp.	360 to 400	°F
Die Temperature	374 to 410	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

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