Telcar® TELC 89-P834-B

Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

General Information

Product Description

Telcar TELC 89-P834-B is a general purpose thermoplastic elastomer designed for electrical applications requiring flexibility over a wide temperature range. Telcar TELC 89-P834-B is a medium durometer grade that is RoHS compliant. This grade is suitable for both injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Foamable • General Purpose • Good Colorability • Good Melt Strength	• Halogen Free • High Elasticity • High Elongation • Low Density	• Low Specific Gravity • Medium Hardness • Sunlight Resistant
Uses	• Electrical Parts • Electrical/Electronic Applications • General Purpose	• Insulation • Rubber Replacement • Wet Rated Insulation	• Wire & Cable Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2, 3] (100% Strain, 0.0200 in)	425	psi	ASTM D412
Tensile Stress [2, 3] (300% Strain, 0.0200 in)	570	psi	ASTM D412
Tensile Strength [2, 3] (Break, 0.0200 in)	1250	psi	ASTM D412
Tensile Elongation [2, 3] (Break, 0.0200 in)	700	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	80		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-76.0	°F	ASTM D746
RTI Elec	122	°F	UL 746B
RTI Str	122	°F	UL 746B
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [4] (277°F, 168 hr)	18	%	ASTM D573
Change in Ultimate Elongation in Air [4] (277°F, 168 hr)	-16	%	ASTM D573
Change in Tensile Strength			ASTM D471
140°F, 168 hr, in IRM 902 Oil	-87	%	
Change in Ultimate Elongation			ASTM D471
140°F, 168 hr, in IRM 902 Oil	-94	%	

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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
73°F	2.4E+17	ohms·cm	
122°F	2.8E+16	ohms·cm	
Dielectric Strength	1100	V/mil	ASTM D149
Dielectric Constant	2.20		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in, All Colors)	HB		UL 94
Oxygen Index	18	%	ASTM D2863

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 390	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	370 to 410	°F
Processing (Melt) Temp	370 to 410	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

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 4 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.

[2] Die C, 20 in/min

[3] die cut from extruded tapes

[4] Updated to reflect more recent values 7.11.24: MO 2000038853 LJT063740-000

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