Telcar® TL-93-E0847A-92

Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

General Information

Product Description

Telcar TL-93-E0847A-92 is a general purpose thermoplastic elastomer designed for the consumer/industrial market. Telcar TL-93-E0847A-92 is a low density, high hardness grade suitable for both injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Colorability • Good Mold Release • Good Moldability	• Good Processability • High Hardness • Light Stabilized • Low Density	• Low Specific Gravity • Medium Flow • Without Fillers
Uses	• Consumer Applications • General Purpose	• Grommets • Industrial Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	1120	psi	
Flow : 100% Strain	1600	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	1230	psi	
Flow : 300% Strain	1780	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	2710	psi	
Flow : Break	2420	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	720	%	
Flow : Break	560	%	
Tear Strength [2]			ASTM D624
Across Flow	367	lbf/in	
Flow	476	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	39	%	
158°F, 22 hr	66	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [4]			ASTM D2240
Shore D, 1 sec, Injection Molded	43		
Shore D, 5 sec, Injection Molded	40		

Revision Date: 8/23/2019

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	420 to 460	°F
Processing (Melt) Temp	420 to 460	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	400 to 440	°F
Cylinder Zone 2 Temp.	400 to 440	°F
Cylinder Zone 3 Temp.	400 to 440	°F
Cylinder Zone 4 Temp.	400 to 440	°F
Cylinder Zone 5 Temp.	400 to 440	°F
Die Temperature	400 to 440	°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] Type 1

[4] Aged for 24 hr

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