Telcar® TL-1173A

Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

General Information

Product Description

Telcar TL-1173A is a low hardness, high density general purpose thermoplastic elastomer designed for various applications in the automotive and industrial industries. Telcar TL-1173A is suitable for injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • High Density • High Specific Gravity	• Low Flow • Low Hardness • Lubricated	• Slip
Uses	• Automotive Applications	• General Purpose	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color	• Opaque	• Yellow
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.3	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	64.0	psi	
Flow : 100% Strain	95.0	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	139	psi	
Flow : 300% Strain	218	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	555	psi	
Flow : Break	327	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	670	%	
Flow : Break	490	%	
Tear Strength [2]			ASTM D624
Across Flow	97.0	lbf/in	
Flow	56.0	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	16	%	
158°F, 22 hr	66	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	24		
Shore A, 5 sec, Injection Molded	22		

Revision Date: 8/20/2019

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	420 to 440	°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.	380 to 400	°F
Cylinder Zone 2 Temp.	390 to 410	°F
Cylinder Zone 3 Temp.	400 to 420	°F
Cylinder Zone 4 Temp.	410 to 430	°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] Die C, 20 in/min

[3] Type 1

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