Telcar® TL-1000-105 UV (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

General Information

Product Description

Telcar TELC 1000-105UV is a general purpose thermoplastic elastomer designed for the transportation market. Telcar TELC 1000-105UV is a high hardness, low density 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 • Good Stiffness • High Hardness • Light Stabilized	• Low Density • Low Flow • Low Specific Gravity • Without Fillers
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim	• Automotive Interior Parts • Blow Molding Applications • General Purpose	• Grommets
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.920		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	55000	psi	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	1820	psi	ASTM D412
Tensile Strength (Break)	3000	psi	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Tear Strength [2]	725	lbf/in	ASTM D624
Compression Set (73°F, 22 hr)	45	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D [3]	55		
Shore D [4]	62		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-67.0	°F	ASTM D746

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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.	360 to 399	°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

[3] Aged in Air for 0 hr at 73°F

[4] Aged in Air for 48 hr at 73°F

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