Telcar® TL-2452G XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Tuesday, April 7, 2026

General Information

Product Description

Telcar TL-2452G is a general purpose thermoplastic elastomer designed for a variety of industrial and consumer applications. Telcar TL-2452G is a low density, low hardness, high flow grade suitable for injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Colorability • Good Melt Strength • Good Moldability • Good Processability	• Good Processing Stability • Good Tear Strength • Good Toughness • Halogen Free • High Elongation • High Flow	• High Hardness • Low Compression Set • Low Density • Low Specific Gravity • Soft • Without Fillers
Uses	• Consumer Applications • Cups • Gaskets • Handles	• Household Goods • Industrial Applications • Low Temperature Applications • Pipe Seals	• Rubber Replacement • Seals • Seals • Toys
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (100% Strain)	150	psi	ASTM D412
Tensile Stress [2] (300% Strain)	280	psi	ASTM D412
Tensile Strength [2] (Break)	750	psi	ASTM D412
Tensile Elongation [2] (Break)	700	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	45		
Shore A, 5 sec, Injection Molded	43		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	350 to 390	°F

Revision Date: 11/3/2020

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Injection	Nominal Value	Unit
Middle Temperature	360 to 400	°F
Front Temperature	380 to 430	°F
Nozzle Temperature	380 to 430	°F
Processing (Melt) Temp	390 to 430	°F
Mold Temperature	80 to 120	°F
Injection Pressure	200 to 800	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	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).

Notes

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

[2] Die C, 20 in/min

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