



Telcar® TL-1445S

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-1445S is a general purpose thermoplastic elastomer designed for the industrial market for general purpose and weather stripping. Available in NAT, BLK, and other colors. Telcar TL-1445S is; UV stable, a medium density, and medium hardness that is suitable for extrusion processes

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Filled • Good Colorability • Good Processability	• Light Stabilized • Low Flow • Medium Density • Medium Hardness	• Slip • Sunlight Resistant
Uses	• General Purpose	• Weatherstripping	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.990		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ^{2, 3} (100% Strain, 73°F, 0.0200 in)	490	psi	ASTM D412
Tensile Stress ^{2, 3} (300% Strain, 73°F, 0.0200 in)	590	psi	ASTM D412
Tensile Strength ^{2, 3} (Break, 73°F, 0.0200 in)	2450	psi	ASTM D412
Tensile Elongation ^{2, 3} (Break, 73°F, 0.0200 in)	750	%	ASTM D412
Tear Strength ²			ASTM D624
Across Flow	251	lbf/in	
Flow	197	lbf/in	
Compression Set ⁴			ASTM D395B
73°F, 22 hr	24	%	
158°F, 22 hr	46	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	70		
Shore A, 5 sec, Injection Molded	68		

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Processing Information

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 Type 1