



Telcar® TL-1431C

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-1431C is a general purpose thermoplastic elastomer, available in NAT and BLK, designed for various applications in the automotive, consumer and industrial segments. Telcar TL-1431C is a medium hardness, medium density, weatherable grade that is suitable for injection molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Chemical Resistant	• Good Colorability	• Medium Density
	• Filled	• Good Weather Resistance	• Medium Flow
	• Good Adhesion	• Light Stabilized	• Medium Hardness
Uses	• Automotive Applications	• Automotive Interior Parts	• Rubber Replacement
	• Automotive Exterior Parts	• General Purpose	• Weatherstripping
	• Automotive Exterior Trim	• Industrial Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1100	psi	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	79		
Shore A, 5 sec, Injection Molded	77		

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 400	°F
Middle Temperature	350 to 410	°F
Front Temperature	360 to 420	°F
Nozzle Temperature	370 to 430	°F
Processing (Melt) Temp	370 to 430	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 1000	psi

Telcar® TL-1431C

Teknor Apex Company - Thermoplastic Elastomer

Injection	Nominal Value	Unit
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.	320 to 370	°F
Cylinder Zone 2 Temp.	330 to 380	°F
Cylinder Zone 3 Temp.	340 to 390	°F
Cylinder Zone 4 Temp.	340 to 390	°F
Cylinder Zone 5 Temp.	350 to 400	°F
Die Temperature	364 to 410	°F
Extrusion Notes		
Screw Speed: 30 to 100 rpm		

Notes

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