

# Telcar® TL-1431C

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## 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 • Filled • Good Adhesion	• Good Colorability • Light Stabilized • Medium Density	• Medium Flow • Medium Hardness • Weather Resistant
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim	• Automotive Interior Parts • General Purpose • Industrial Applications	• Rubber Replacement • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

## ASTM & ISO Properties <sup>1</sup>

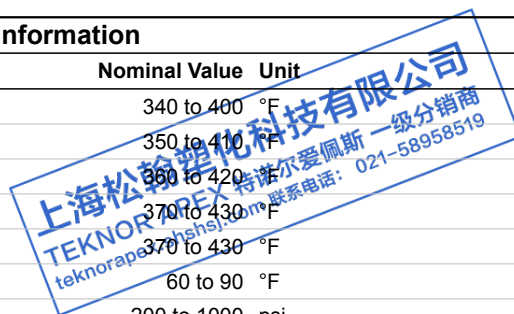
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1100	psi	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method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

### Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

## 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
Injection Rate	Moderate-Fast	



Revision Date: 6/1/2016

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<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>
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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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