

# Telcar® 10-E0159A-45

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Telcar® 10-E0159A-45 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Typical application areas include:

Automotive Industry  
engineering/industrial accessories

General Information			
Uses	Blow molding applications Washer Weather-resistant sealing strip Application in Automobile Field Car interior parts Automotive exterior parts Car exterior decoration General		
Appearance	Translucent		
Forms	Particle		
Processing Method	Extrusion Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	45		ASTM D2240
Shaw A, 15 seconds <sup>1</sup>	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Break, 23°C)	6.89	MPa	ASTM D412
Tensile Elongation (Break)	850	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	199 - 210	°C	
Middle Temperature	204 - 216	°C	
Front Temperature	210 - 221	°C	
Nozzle Temperature	216 - 227	°C	
Processing (Melt) Temp	216 - 227	°C	
Mold Temperature	35.0 - 65.6	°C	

Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 120	rpm
Cushion	3.81 - 25.4	mm

#### Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	193 - 204	°C
Cylinder Zone 2 Temp.	199 - 210	°C
Cylinder Zone 3 Temp.	204 - 216	°C
Cylinder Zone 5 Temp.	210 - 221	°C
Die Temperature	216 - 227	°C

#### Extrusion instructions

Screw Speed: 30 to 100 rpm

#### NOTE

1. Stand
2. 510 mm/min

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#### Recommended distributors for this material

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