Telcar® TL-4001-E

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar TL-4001-E is a general purpose thermoplastic elastomer designed for the industrial market, including weatherstripping. Telcar TL-4001-E is a medium hardness, medium density, UV stable grade suitable for injection molding and extrusion.

General Information			
Features	Sunlight Resistant		
	smoothness		
	Light stabilization		
	Low liquidity		
	Fill		
	Medium density		
	Medium hardness		
	UV absorption		
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Uses	Industrial application		
	Weather-resistant sealing strip		
	General		
RoHS Compliance	RoHS compliance		
Appearance	White		
	Opacity		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16		9,	
kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	72		ASTM D2240
Shore A, 5 seconds, injection molding	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
Transverse flow: 100% strain	2.93	MPa	ASTM D412

Flow: 100% strain	5.47	MPa	ASTM D412
Transverse flow: 300% strain	3.79	MPa	ASTM D412
Tensile Strength ²			ASTM D412
Transverse flow: Fracture	9.69	MPa	ASTM D412
Flow: Fracture	5.96	MPa	ASTM D412
Tensile Elongation ³			ASTM D412
Transverse flow: Fracture	1800	%	ASTM D412
Flow: Fracture	230	%	ASTM D412
Tear Strength ⁴			ASTM D624
Transverse flow	43.3	kN/m	ASTM D624
Flow	40.1	kN/m	ASTM D624
Compression Set ⁵			ASTM D395B
23°C, 22 hr	35	%	ASTM D395B
70°C, 22 hr	65	%	ASTM D395B

Legal statement

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Injection	Nominal Value	Unit	
Rear Temperature	171 - 193	°C	
Middle Temperature	177 - 199	°C	
Front Temperature	182 - 204	°C	
Nozzle Temperature	188 - 210	°C	
Processing (Melt) Temp	188 - 210	°C	
Mold Temperature	25 - 66	°C	
Injection Pressure	1.38 - 6.89	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 100	rpm	
Cushion	3.81 - 25.4	mm	
Injection instructions			

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.	166 - 188	°C
Cylinder Zone 2 Temp.	171 - 193	°C
Cylinder Zone 3 Temp.	177 - 199	°C
Cylinder Zone 5 Temp.	182 - 204	°C
Die Temperature	190 - 210	°C
Extrusion instructions		

Screw Speed: 30 to 100 rp		
NOTE		
1.	C mold, 510mm/min	
2.	C mold, 510mm/min	
3.	C mold, 510mm/min	
4.	C mold, 510mm/min	
5.	Type 1	

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