

Telcar® TL-1522E

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar® TL-1522E 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	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	21	g/10 min	ASTM D1238
230°C/2.16 kg	54	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.6	%	ASTM D955
Transverse flow	1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance			ASTM D2228
1000 Cycles, H-18 wheel	100	mg	ASTM D2228
1000 Cycles, H-22 wheel	570	mg	ASTM D2228
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412

100% strain	1.17	MPa	ASTM D412
300% strain	1.93	MPa	ASTM D412
Tensile Strength (Break)	5.31	MPa	ASTM D412
Tensile Elongation (Break)	790	%	ASTM D412
Tear Strength ¹	19.3	kN/m	ASTM D1004
Compression Set			ASTM D395
23°C, 22 hr	32	%	ASTM D395
70°C, 22 hr	67	%	ASTM D395
100°C, 22 hr	88	%	ASTM D395
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	1.6E+16	ohms·cm	ASTM D257
50°C	1.6E+14	ohms·cm	ASTM D257
Dielectric Strength	37	kV/mm	ASTM D149
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	25.0 - 65.6	°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	
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			
螺杆转速30 - 100 rpm			
NOTE			
1.	C mould		

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