

Telcar® TL-1402T

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar®TL-1402T 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.

Telcar®The main features of the TL-1402T are:

flame retardant/rated flame

ROHS certification

Halogen-free

Typical application areas include:

Wire and cable

Electrical/electronic applications

General Information			
Features	Halogen-free		
Uses	Cable sheath		
	Wire and cable applications		
	Wire sheath		
	Connector		
	cord sheath		
	Terminal cable sheath material		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	87		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	10.3	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-52.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94
Oxygen Index	28	%	ASTM D2863
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		

Screw Speed: 30 to 100 rpm

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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