## Telcar® TL-3050-88 RED 4179

## Thermoplastic Elastomer

Teknor Apex Company

## Message:

Telcar TL-3050-88 RED is a general purpose thermoplastic elastomer designed for electrical applications requiring flexibility over a wide termperture range. Telcar TL-3050-88 RED is a high durometer, high tensile strength grade that is RoHS compliant. This grade is UL listed and is suitable for both injection molding and extrusion.

Features	High elasticity High tensile strength Good melt strength		
	Good melt strength		
	Good flexibility		
	Good coloring		
	Low liquidity		
	General		
	Halogen-free		
	Extended tensile rate		
	High hardness		
Uses	Electrical components		
	Wire and cable applications		
	Washer		
	Insulating material		
	Connector		
	Moisture-resistant insulating material Weather-resistant sealing strip Fatigue elimination supplies		
	General		
Agency Ratings	UL 1581 2		
RoHS Compliance	RoHS compliance		
UL File Number	QMTT2.E73402		
Appearance	Red		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Dhusical	Nominal Value	Unit	Test Method
Physical Specific Gravity	0.898	g/cm <sup>3</sup>	ASTM D792

Nominal Value 91 88 Nominal Value 280 Nominal Value	Unit Unit MPa Unit	Test Method ASTM D2240 ASTM D2240 ASTM D2240 Test Method ASTM D790
88 Nominal Value 280 Nominal Value	MPa	ASTM D2240 ASTM D2240 Test Method ASTM D790
88 Nominal Value 280 Nominal Value	MPa	ASTM D2240 Test Method ASTM D790
Nominal Value 280 Nominal Value	MPa	Test Method ASTM D790
280 Nominal Value	MPa	ASTM D790
Nominal Value		
	Unit	<b>T</b>
6.24		Test Method
6.21		ASTM D412
6.21	MPa	ASTM D412
7.79	MPa	ASTM D412
20.5	MPa	ASTM D412
700	%	ASTM D412
Nominal Value	Unit	Test Method
28	%	ASTM D573
-7.0	%	ASTM D573
-84	%	ASTM D471
-75	%	ASTM D471
Nominal Value	Unit	Test Method
-60.0	°C	ASTM D746
50.0	°C	UL 746
50.0	°C	UL 746
Nominal Value	Unit	Test Method
		ASTM D257
> 1.0E+15	ohms∙cm	ASTM D257
> 1.0E+14	ohms•cm	ASTM D257
45	kV/mm	ASTM D149
		ASTM D150
2.10		ASTM D150
2.10		ASTM D150
		ASTM D150
8.0E-4		ASTM D150
2.8E-3		ASTM D150
Nominal Value	Unit	Test Method
НВ		UL 94
17	%	ASTM D2863
	Nominal Value   28   -7.0   -84   -75   Nominal Value   -60.0   50.0   50.0   50.0   S0.0   > 1.0E + 15   > 1.0E + 15   > 1.0E + 14   45   2.10   2.10   8.0E - 4   2.8E - 3   Nominal Value	Nominal ValueUnit28%-7.0%-7.0%-84%-75%Nominal ValueUnit-60.0°C50.0°C50.0°C50.0°C50.0°C50.0°C50.0%51.0E+15ohms·cm> 1.0E+15ohms·cm45KV/mm2.10×2.10×8.0E-4×2.8E-3UnitHB

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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	25.0 - 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
Extrusion Cylinder Zone 1 Temp.	Nominal Value 166 - 188	Unit °C
Cylinder Zone 1 Temp.	166 - 188	°C
Cylinder Zone 1 Temp. Cylinder Zone 2 Temp.	166 - 188 171 - 193	°C °C
Cylinder Zone 1 Temp. Cylinder Zone 2 Temp. Cylinder Zone 3 Temp.	166 - 188 171 - 193 177 - 199	°C °C °C
Cylinder Zone 1 Temp. Cylinder Zone 2 Temp. Cylinder Zone 3 Temp. Cylinder Zone 5 Temp.	166 - 188 171 - 193 177 - 199 182 - 204	°C °C °C
Cylinder Zone 1 Temp. Cylinder Zone 2 Temp. Cylinder Zone 3 Temp. Cylinder Zone 5 Temp. Die Temperature	166 - 188 171 - 193 177 - 199 182 - 204	°C °C °C
Cylinder Zone 1 Temp.Cylinder Zone 2 Temp.Cylinder Zone 3 Temp.Cylinder Zone 5 Temp.Die TemperatureExtrusion instructions	166 - 188 171 - 193 177 - 199 182 - 204	°C °C °C
Cylinder Zone 1 Temp.Cylinder Zone 2 Temp.Cylinder Zone 3 Temp.Cylinder Zone 5 Temp.Die TemperatureExtrusion instructions螺杆转速30 - 100 rpm	166 - 188 171 - 193 177 - 199 182 - 204	°C °C °C
Cylinder Zone 1 Temp.Cylinder Zone 2 Temp.Cylinder Zone 3 Temp.Cylinder Zone 5 Temp.Die TemperatureExtrusion instructions螺杆转速30 - 100 rpmNOTE	166 - 188 171 - 193 177 - 199 182 - 204 190 - 210	°C °C °C

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