

T & T Marketing TPE 6187

Thermoplastic Vulcanizate

T & T Marketing, Inc.

Message:

TPE 6187 is a natural, thermoplastic elastomer (TPV) intended for wire and cable insulation and jacketing. It is designed to offer excellent low temperature flexibility and deformation resistance. TPE 6187 offers good extrusion processing characteristics on either conventional polyethylene or PVC extrusion lines.

TPE 6187 is readily pigmented to a variety of colors using standard wire and cable color concentrates designed for thermoplastic or crosslinked polyolefins. UV weather resistance is obtainable by the addition of a suitable carbon black or UV additive.

Application

TPE 6187 is intended for pump cable, flexible cord insulation, and fixture applications. (It is also suitable for use in wet locations.)

General Information			
Features	Low Temperature Flexibility		
Uses	Cable Jacketing		
	Insulation		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	UL 62, Class 36		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 0.762 mm)	83		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	15.2	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	800	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Retention of Tensile Elongation - 7 days at 136°C (762.0 μm)	> 65	%	UL 1581
Retention of Tensile Strength - 7 days at 136°C (762.0 μm)	> 85	%	UL 1581
Heat Deformation (150°C, 762.0 μm)	< 20	%	UL 1581
Extruder Screw Compression Ratio	3:1		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -45.6	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.91 mm)	26	kV/mm	ASTM D149
Dielectric Constant (1.91 mm, 60 Hz)	2.20		ASTM D150
Extrusion	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	185	°C
Cylinder Zone 2 Temp.	193	°C
Cylinder Zone 3 Temp.	202	°C
Cylinder Zone 4 Temp.	213	°C
Melt Temperature	213 to 218	°C
Die Temperature	216	°C

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