T & T Marketing TPE 5595CR

Thermoplastic Elastomer

T & T Marketing, Inc.

Message:

TPE 5595CR is a natural, olefin-based thermoplastic elastomer (TPE) intended for wire and cable insulation and jacketing applications where high temperature performance and excellent flame resistance are required. TPE 5595CR complies with "Restriction of Hazardous Substances" Directive, Citation 2002-95-EC, commonly known as RoHS without exemption. TPE 5595CR does not contain decabromodiphenyl oxide. TPE 5595CR exhibits excellent wet and dry electrical properties and superior chemical resistance. It also provides good resistance to abrasion, impact and crush. TPE 5595CR also exhibits superior low temperature properties as demonstrated by it passing cold bend and impact testing at -50°C.

TPE 5595CR contains a halogen-based, flame retardant additive package designed to reduce normal PE flame spread characteristics and achieve a VW-1 flame resistant rating on 14 AWG wires and larger. It also offers good extrusion processing characteristics on either conventional polyethylene or PVC extrusion lines. In addition, TPE 5595CR contains a UV stabilization additive package that provides effective long-term UV weather resistance. TPE 5595CR is readily pigmented to a variety of colors using standard wire and cable color concentrates designed for thermoplastic or crosslinked

polyolefins. Application

TPE 5595CR is intended for 125°C UL rated appliance wire and other flame retardant insulation or jacketing constructions. Specifically, this product is rated a V-0 by UL Standard 94 at a minimum thickness of 0.062 inches. TPE 5595CR is capable of achieving a VW-1 flame resistance on 14 AWG or larger conductors as per UL Standard 1581.

General Information				
Additive	UV stabilizer			
	Flame retardancy			
Features	Impact resistance, good			
	Good UV resistance			
	Good electrical performance			
	Good wear resistance			
	Halogenated			
	Good chemical resistance			
	Flame retardancy			
Uses	Flame Retardant Insulation			
	Cable sheath			
	Wire and cable applications			
	Wire sheath			
	Insulating material			
Agency Ratings	UL 62, Class 1.14			
	UL 62, Class 1.18			
	UL 62, Class 2.20			
	UL 62, Class 2.28			
	UL 62, Class 36			
	UL 758, Style 1722			

RoHS compliance		
Natural color		
Extrusion		
Nominal Value	Unit	Test Method
1.34	g/cm³	ASTM D792
Nominal Value	Unit	Test Method
		ASTM D2240
93		ASTM D2240
41		ASTM D2240
Nominal Value	Unit	Test Method
359	MPa	ASTM D790
Nominal Value	Unit	Test Method
20.0	MPa	ASTM D412
600	%	ASTM D412
Nominal Value	Unit	Test Method
> 90	%	UL 1581
> 90	%	UL 1581
24:1		
2.7 to 3.5:1		
Nominal Value	Unit	Test Method
< -45.6	°C	ASTM D746
Nominal Value	Unit	Test Method
1.6E+16	ohms·cm	ASTM D257
26	kV/mm	ASTM D149
2.40		ASTM D150
2.7E-3		ASTM D150
Nominal Value	Unit	Test Method
V-0		UL 94
28	%	ASTM D2863
Nominal Value	Unit	
188	°C	
199	°C	
204	°C	
210	°C	
210		
210	°C	
	Natural color Extrusion Nominal Value 1.34 Nominal Value 93 41 Nominal Value 359 Nominal Value 20.0 600 Nominal Value > 90 24:1 2.7 to 3.5:1 Nominal Value < -45.6 Nominal Value 1.6E+16 26 2.40 2.7E-3 Nominal Value V-0 28 Nominal Value 188 199	Natural color Extrusion Nominal Value Unit

Screw: Barrier or Single FlightDie: Smooth transition, With >= 1/8 in. land, Die & Tip include angle: 22-35°Throat: Water-cooled

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