AuroraGuard™ GTPE-2272SGK8

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

A 105°C , UV resistant, flame retardant, RoHS Compliant, oil resistant jacketing material with good low temperature properties.

Note: Additional custom color matching is available upon request. Preliminary data.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant • Low Temperature Toughness	• Oil Resistant • UV Resistant	
Uses	• Cable Jacketing	• Wire & Cable Applications	• Wire Jacketing
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30 to 1.36		ASTM D792
Melt Mass-Flow Rate (MFR) (170°C/21.6 kg)	15	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	914	psi	ASTM D638
Tensile Strength			ASTM D412
-- [2]	2000	psi	
-- [3]	2100	psi	
Tensile Elongation			ASTM D412
Break [2]	510	%	
Break [3]	530	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	72 to 78		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [4]	-41.8	°F	ASTM D746
Deformation - 2 kg (250°F)	15	%	UL 2556
Temperature Rating	221	°F	UL 1581
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength			UL Unspecified
212°F, 96 hr, in IRM 902 Oil [3]	4.0	%	
277°F, 168 hr [3]	-7.0	%	
277°F, 168 hr [2]	0.0	%	
Change in Ultimate Elongation			UL Unspecified
212°F, 96 hr, in IRM 902 Oil [3]	-20	%	
277°F, 168 hr [3]	-18	%	
277°F, 168 hr [2]	-10	%	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index (0.125 in)	31	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit

Cylinder Zone 1 Temp.	310 °F
Cylinder Zone 2 Temp.	320 °F
Cylinder Zone 3 Temp.	330 °F
Cylinder Zone 4 Temp.	340 °F
Melt Temperature	340 °F
Die Temperature	653 to 662 °F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Die C

[3] Die D

[4] 75mil