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Kimfill 4151

Crack Resistant Halogen Free Flame Retardant

Product Description

Kimfill 4151 is a crack resistant thermoplastic, low smoke zero halogen (LSZH) flame retardant, natural jacketing compound combining with excellent extrusion properties.

this based on the novel technology, Kimfill containing inorganic filler and a novel char-forming additive which confer flame retardancy with very limited smoke generation. It can be used in areas sensitive to smoke or corrosive and toxic combustion products. For most cable constructions, Kimfill 4151 has sufficient flame retardancy to satisfy single wire vertical burning tests.

Kimfill 4151 meets the applicable requirements below using sound commercial extrusion practice and testing procedures:

IEC 60502-1 ST8

General							
Material Status	 Commerc 	Commercial: Active					
Availability	Middle Ea	e East, Europe					
Additive	Unspecifie	pecified Additive					
Features	• Clean/Hi	gh Purity	Good Process ability				
Uses	Communi	cation Wire Jacketing	Electronic Cable Jacke	ting • Security Cable Jacketing			
Appearance	Natural co	lor					
Forms	• Pellets	uts					
Packaging	• 25 Kg sacks						
Processing Method	• Extrusion						
Physical		Nominal Value	Unit	Test Method			
Density		1.40±0.05	g/cm³	ISO 1183			
Melt Mass-Flow Rate (MFR) (190°C/5 kg)		0.5 ±0.2 g/10 min		ISO 1133			
Mechanical		Nominal Value	Unit	Test Method			
Tensile Stress (Break)		14.0	MPa	IEC 60811-1-1			
Tensile Strain (Break)		170	%	IEC 60811-1-1			
Crack Resistance		Pass	-	Internal method			
Hardness		Nominal Value	Unit	Test Method			
Hardness(ShoreD,10sec)		50	-	ISO 868			
Ageing		Nominal Value	Unit	Test Method			
Retention of mechanical properties 100°C, After Ageing168 hr		>75	%	IEC 60811-1-2			
Extrusion							

As a guide the following temperature profile is recommended

Zone 1	Zone 2	Zone 3	Zone 4	Head	Die
110	135	140	160	170	170

Flammability properties	Nominal Value	Unit	Test Method
Oxygen Index	34	%	ISO 4589-2
Smoke Density (light transition)	80	%	IEC 61034
Halogen Acid Gas Evaluation	<0.5	%	IEC 60754-1

Note

- Test results have been achieved in lab condition. Miss handling may give different result and sometimes outside of the standard
- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing