



RavaSafe® ZH-LSF 55P

Ravago Manufacturing Europe - Thermoplastic

General Information

Product Description

RavaSafe® ZH-LSF 55P is a thermoplastic zero halogen, low smoke flame retardant compound designed for very thin wall thickness for Optical Fiber Cables.

This grade is aimed for gel / dry loose tubes, micro-modules, bundle and tight buffered applications. Able to process at very high speed; low shrinkage.

This solution is UV stabilized, easy peel and is gel compatible .

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Additive	• Flame Retardant		
		• UV Stabilizer	
Features	• Flame Retardant	• Low Shrinkage	• UV Stabilized
	• Halogen Free	• Low Smoke Emission	
Uses	• Wire & Cable Applications		
Appearance	• Colors Available		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33	g/cm ³	ASTM D792
Density (23°C)	1.33	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ² (150°C/21.6 kg)	15	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³	17.7	MPa	IEC 60811-501
Tensile Strain ³ (Break)	> 300	%	IEC 60811-501
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	48		ASTM D2240
Shore Hardness (Shore D, 15 sec)	48		ISO 868
Aging	Nominal Value	Unit	Test Method
Change in Tensile Stress (120°C, 168 hr)	-2.0	%	IEC 60811-501
Change in Tensile Strain at Break (120°C, 168 hr)	-20	%	IEC 60811-501
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ASTM D2863
Oxygen Index	27	%	ISO 4589-2
Acid Gas Emission Conductivity	< 2.50	µS/mm	IEC 60754-2
Acid Gas Emission pH	> 4.30		IEC 60754-2
Halogen Content	< 1	%	IEC 60754-1

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	130	°C
Cylinder Zone 2 Temp.	140	°C
Cylinder Zone 3 Temp.	150	°C
Cylinder Zone 4 Temp.	160	°C
Cylinder Zone 5 Temp.	160	°C
Adapter Temperature	165	°C
Head Temperature	170	°C
Die Temperature	170	°C

Extrusion Notes

RavaSafe® ZH-LSF 55P is a product able to run on standard extruders, based on low compression screw and head. This compound is supplied in aluminium foil bags. Pre-drying is not required before extrusion process.

Notes

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

² Procedure B

³ 200 mm/min