



RavaSafe® ZH-LSF 32 UV

Ravago Manufacturing Europe - Thermoplastic

General Information

Product Description

RavaSafe® ZH-LSF 32 UV is a thermoplastic zero halogen, low smoke flame retardant compound designed for general purpose sheathing applications.

This solution is designed for cable construction demanding mechanical properties, good process and high flame retardancy to target the most challenging requirements with UV stabilization

Typical Application: Telecom, Low and Medium power cable application

Standard norms (type of material) : EN 50363 (TM7), VDE 0207 / 0250 (HM2, HM4), BS 7655 (LTS 2), IEC 60502 (ST8) and IEC 60092-360 (SHF1)

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55	g/cm ³	ASTM D792
Density (23°C)	1.55	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ² (150°C/21.6 kg)	8.5	g/10 min	ISO 1133
Water Immersion - 7 days (70°C)	1.30	mg/cm ²	IEC 60811-402
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³	10.5	MPa	IEC 60811-501
Tensile Strain ³ (Break)	160	%	IEC 60811-501
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	5.10	kN/m	BS 6469 99.1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	46		ASTM D2240
Shore Hardness (Shore D, 15 sec)	46		ISO 868
Thermal	Nominal Value	Unit	Test Method
Temperature Index	330	°C	ISO 4589-3
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)	-16	%	IEC 60811-501

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Flammability	Nominal Value	Unit	Test Method
Oxygen Index	40	%	ASTM D2863
Oxygen Index	40	%	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
Smoke Density ⁴			ASTM E662
Flaming mode : 1.50 mm	93		
Non Flaming mode : 1.50 mm	160		

Processing Information

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 32 UV 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

⁴ Ds max