

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 .

Technical properties:

Physical and Mechanical Properties	Typical Value	Units (SI)	Test Method
Density, 23°C	1,33	g/cm³	ISO 1183-1 (ASTM D792)
Melt flow index (150°C /21,6kg)	15	g/10 min	ISO 1133 (b)
Hardness (15 seconds)	48	Shore D	ISO R 868 (ASTM D2240)
Unaged mechanical properties (200 mm/min)			
Tensile strength	17,7	MPa	IEC 60811-501
Elongation at break	>300	%	
Thermal ageing 7 days at 120°C			
Tensile strength variation (Δ)	-2	%	IEC 60811-501
Elongation at break variation (Δ)	-20	%	
Thermal Mechanical Properties			
Hot Pressure Deformation (6h @ 90°C)	< 50	%	IEC 60811-508

Flammability	Typical Value	Units (SI)	Test Method
Oxygen Index	27	%	ISO 4589-2 (ASTM D2863)
Halogen content	< 0,5	%	
<i>Acid gas emission</i>			
pH	> 4,3	/	IEC 60754-2
Conductivity	< 2,5	μS/mm	IEC 60754-1

Recommended extrusion profile:

Extrusion Temperatures	Zones							
	Z1	Z2	Z3	Z4	Z5	Collar	Head	Die
Temperature (Imperial)	266°F	284°F	302°F	320°F	320°F	329°F	338°F	338°F
Temperature (SI)	130°C	140°C	150°C	160°C	160°C	165°C	170°C	170°C

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.

RavaSafe® ZH-LSF 55P is colorable. A full range of specific color masterbatches (RAVACOLOR™) and additive masterbatches (RAVABOOST™) are available.

For any further information, please contact Ravago W&C.

The material description is subject to changes during the validation period of the product.

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