

LSZH LC 01

LOW SMOKE ZERO HALOGEN COMPOUND

Product Description:

LSZH LC 01 is a Low Smoke Zero Halogen thermoplastic, Non-Flame-Retardant Compound for Inner Sheathing & Jacketing for non-critical cable applications.

Salient Features:

- Good Flow properties resulting in good extrusion & low amperage on the machine
- Good Thermal and Mechanical properties
- Good Crack resistance properties

Technical Specifications Sheet

Properties	Test Method	Unit	Typical Value
a) Physical			
Density	ASTM D 792	gm/cc	1.52 +/- 0.02
MFI (21.6 kg @160°C)	ASTM D 1238	g/10 min	>5
b) Mechanical			
Hardness	ASTM D 2240	Shore D	50±2
Tensile Strength (250mm/min)	ASTM D 638	MPa	Min 11
Elongation at Break (250mm/min)	ASTM D 638	%	>170
Variation in Tensile Properties After heat ageing (10 days at 100°C)			
• Tensile Strength	ASTM D 638	%	+11
• Elongation	ASTM D 638	%	-8

Properties	Test Method	Unit	Typical Value
C) Thermal			
Smoke density rating	ASTM D 2843	%	< 20
Halogen Acid Gas Generation	IEC 60754-1	%	Nil
Test on gases evolved during Combustion			
• pH	IEC 60754-2	-	>4.3
• Conductivity	IEC 60754-2	µs/mm	<10
d) Electrical			
Volume Resistivity	ASTM D 257	Ω –cm	1 x 10 ¹⁵

Processing Parameters:

LSZH range of compounds is designed to perform on extruder with Low compression ratio screws meant for PE extrusion. However, it can also be used on PVC extruder with limitation on output. The recommended temperature for extruding LSZH compound is in the range of 130°C to 150°C for barrel and 150°C for cross head and 165°C for die. Extra caution must be exerted to see that the processing temperature does not exceed 170°C which will result in degradation material. Pre-drying of the compound is recommended at 70°C for 2 hours to obtain smooth processing of the cable and attaining good surface finish on the cable.

Color Options:

It is recommended to use RoHS compliant masterbatch for attaining the desired color for the cables which conforms to RAL color standards. We can also supply mass colored compound as per the RAL Shade (Natural/Black). We recommend to use Black compounded product for demanding outdoor application.

Packaging, Storage & Transport:

Package	Net Weight	25 kgs -PP Laminated bags 500/1200 kgs –PP based Jumbo Bags
Transport	Requirement	Keep away from the sunshine, rain & soaking during transport, as well as handle gently while carrying.
Storage	Environment	Clean, dry and ventilated ware house

Technical Assistance:

Our technical team will be available for assistance on request.

RoHS Compliance:

LSZH LC 01 Compound is RoHS and REACH Compliance.

Revision 1: April 2023

Disclaimer:

The above-mentioned recommendations are derived after various trials and checks conducted under different conditions. It is advised that the above stated information must be used as guidelines only. We suggest that the customer conducts their own trials and arrive at the optimum processing parameters which are best suited for their equipment and processing conditions. Sankhla does not take any responsibility for any sort of loss arising due to improper handling or usage of materials supplied.

Sankhla Vinyl Pvt. Ltd.

#75/2, 2nd Floor, Chaitra Court, Above Giria's Electronics Showroom, Vani Vilas Road,
Basavanagudi, Bengaluru 560 004, India

Mob: +91-99809 61025 | Email: cmho@sankhlapolymers.com

www.sankhlaivynl.com