

Product Data Sheet Lucofin® 7451 HFFR

Product description

Lucofin® 7451 HFFR is a thermoplastic, halogen free flame retardant and low smoke compound for the insulation and/or sheathing of cables. Lucofin® 7451 HFFR combines good extrusion properties with flame retardancy.

This product has been especially developed for applications where **very high flame retardancy** is required.

Standards DIN VDE 0276 Part 24
 EN 50 290-2-27

HM2
 Type 70°C

REACH/RoHS conformity

The material complies with the requirements of EU Regulation (EC) No. 1907/2006 (REACH), Directive 2011/65/EU (RoHS), and EU Regulation (EC) No. 850/2004 (POPs). These requirements also apply to all future versions.

Processing Instructions

The processing properties vary greatly depending on the type of machine and the cable type to be produced. The following conditions are recommended as general guidelines, for example, for a single-screw extruder L/D 25 with a feed screw with a low compression ratio of 1:1.2.

Storage and Drying

HFFR has a minimum shelf life of 12 months from the date of delivery if stored in unopened original packaging, under dry and clean conditions at temperatures between 10 - 40°C. Moisture in the granulate is noticeable through a porous, foaming melt. If moisture absorption occurs, the compound can be dried at 60°C for 4-6h using a dry air dryer.

Packaging

1000 kg octabin or 25 kg bagged material

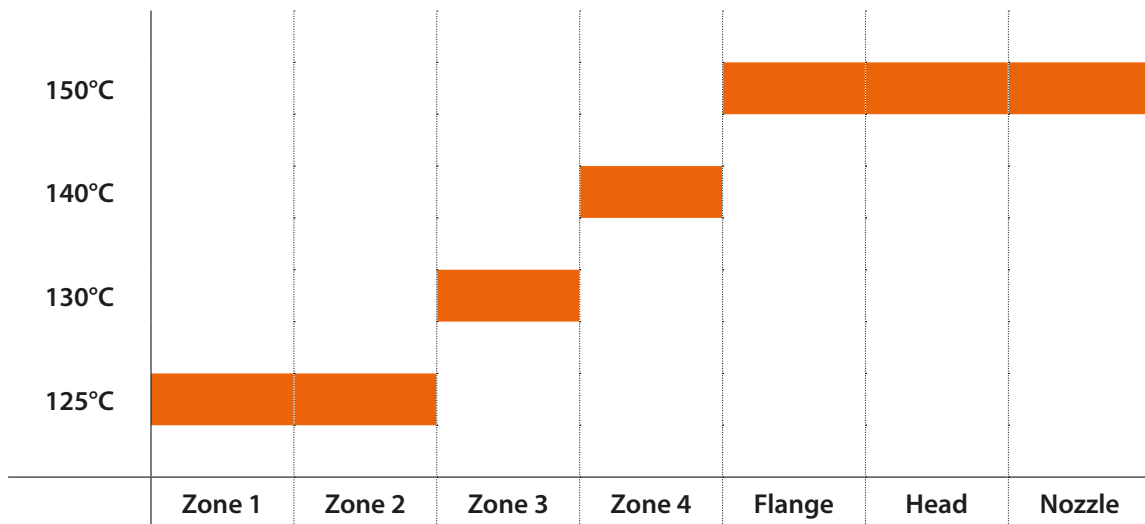
Technical Properties

Property	Test method	Unit	Typical value
Density	ISO 1183-1	g/cm ³	1.55 ± 0.03
Micro Shore Hardness D 3 sec., 23°C		-	52 ± 3
Tensile Strength	EN 60811-501	N/mm ²	12
Elongation at break	EN 60811-501	%	>150
LOI	EN ISO 4589-2	Vol-%	44
Heat Pressure 6h@80°C	EN 60811-508	%	≤ 40
Melt Index (150°C; 21.6kg)	DIN EN ISO 1133	g/10 min	18

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Temperature profile

The profile shown above depends on the extruder type, head design, and output rate. A melt temperature of 185°C should not be exceeded.



Note
The information provided in this document is based on our product tests and present technical knowledge. It does not release purchasers from the responsibility of carrying out their receiving inspections. Neither does it imply any binding assurance of suitability of our products for a particular purpose. As LUCOBIT cannot anticipate or control the many different conditions under which this product may be processed and used this information does not relieve processors from their own tests and investigations. Any proprietary rights as well as existing legislation shall be observed.