

TECHNICAL DATA SHEET

LARIPUR 9060 HFM

GENERAL DESCRIPTION

LARIPUR 9060 HFM is a high-performing polyether-based TPU. It is a halogen-free flame-retardant grade allowing to achieve a highly matt finish without affecting the mechanical performances of the final item. In addition, very good hydrolytic stability and anti-microbial properties allow obtaining weatherproof and biodegradation-resistant items. This product is primarily developed for the extrusion of wires and cables, nonetheless it is suggested for the manufacturing of all items where flame-retardant properties are required.

TYPICAL CHEMICAL- PHYSICAL PROPERTIES

Parameter	Typical Value	Unit	Method
Density	1.24	gr/cm ³	ISO 2781
Shore Hardness	88	A	ISO 7619-1
Abrasion Loss	50	mm ³	ISO 4649
Tensile Modulus:	50% 100% 300%	7.2 9.0 13.6	N/mm ² ISO 22654
Tensile Strength	33.6	N/mm ²	ISO 22654
Elongation at Break	530	%	ISO 22654
Tear Strength	68	N/mm	ISO 34-1
Vicat Softening Point	84	°C	ISO 306
Compression set:	70h/23°C 22h/70°C	28 56	% ISO 815-1

The above reported data do not constitute sales specifications for the material in object.

The properties reported in this Technical Data Sheet are determined on annealed, injection moulded specimens and represent the average of values obtained from a significant number of production lots.

The international standards above indicated are intended as a reference for the execution of the relative tests, whereas the choice of available options and any possible variation are detailed in our respective internal standards.

The informations reported in this Technical Data Sheet are based on our current best knowledge, however, even if we guarantee the quality consistency of our LARIPUR products, we reserve the option to periodically issue updated versions of this Technical Data Sheet and respective sale specifications as well.

The extrusion grade LARIPUR are identified by a specific end code (EG, EA, AE, DP, EM, EF, EP, U, EUV or HFM). This code has to be indicated when ordering those grades.

STORAGE AND STABILITY

LARIPUR 9060 HFM is supplied in regular pelletized form and packaged in 25 kg bags or 500 kg and 1000 kg octabins.

LARIPUR 9060 HFM must be stored in its original and sealed containers and kept in a dry and well-ventilated place, avoiding the direct sun radiation.

The shelf life of LARIPUR 9060 HFM is of six months from the date of delivery to the final customer, if stored in its original sealed packaging and in proper conditions.

SAFETY

The product is not considered dangerous, nevertheless we recommend to read the Material Safety Data Sheet before handling.

PROCESSING RECOMMENDATIONS

Before processing, material needs to be dried at 80-90°C for 3 hours, preferably using a dehumidifying drier fed by air with a dew point lower than -30°C.

Suggested moulding temperature profile:

Zone	Temperature
Zone 1	180°C
Zone 2	185°C
Zone 3	190°C
Nozzle	185°C

Suggested extrusion temperature profile:

Zone	Temperature
Zone 1	155°C
Zone 2	160°C
Zone 3	165°C
Zone 4	160°C
Adapter	155°C
Die	150°C

Being affected by the type of machine used, processing conditions and downstream equipment, the suggested temperature profiles has to be considered as just indicative.

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