

TECNOPRENE® AK6HILP - PP

Description

Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, laser markable.

Physical properties	Value	Unit	Test Standard
Density	70.5	lb/ft ³	ISO 1183
Melt flow rate, MFR	3	g/10min	ISO 1133
MFR temperature	446	°F	ISO 1133
MFR load	4.76	lb	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	971755	psi	ISO 527-1, -2
Tensile stress at break, 5mm/min	11900	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	3	%	ISO 527-1, -2
Flexural modulus, 23°C	914000	psi	ISO 178
Flexural strength, 23°C	18900	psi	ISO 178
Charpy notched impact strength, 23°C	4.99	ft-lb/in ²	ISO 179/1eA
Izod impact notched, 23°C	5.23	ft-lb/in ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	295	°F	ISO 75-1, -2
Flammability @1.6mm nom. thickn.	HB	class	UL 94
Flammability @3.2mm nom. thickn.	HB	class	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Drying time	2 - 3	h
Drying temperature	176 - 212	°F

Temperature	Value	Unit
Zone1 temperature	392 - 428	°F
Zone2 temperature	428 - 464	°F
Zone3 temperature	464 - 500	°F
Nozzle temperature	464 - 500	°F
Mold temperature	122 - 176	°F

Other text information

Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

Characteristics

Special Characteristics	Laser markable
Product Categories	Glass reinforced
Processing	Injection molding



Other Approvals

OEM

VW Group

Specification

VW44045

General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. The products mentioned herein are not intended for use in medical or dental implants.

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