TECNOPRENE® VK6HIT1

TECNOPRENE®

Polypropylene, homopolymer. 31% glass fiber reinforced, chemically bonded, high flow, high heat stabilisation.

Product information

Resin Identification	PP-GF31		ISO 1043
Part Marking Code	>PP-GF31<		ISO 11469

Rheological properties

Melt mass-flow rate	13	g/10min	ISO 1133
Melt mass-flow rate, Temperature	446	°F	
Melt mass-flow rate, Load	4.76	lb	

Typical mechanical properties

Tensile modulus	1.02E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	13800	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3	%	ISO 527-1/-2
Flexural modulus	943000	psi	ISO 178
Flexural strength	20300	psi	ISO 178
Charpy impact strength, 23°C	22.8	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.47	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	4.76	ftlb/in²	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	298	°F	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.1260	in	IEC 60695-11-10
FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	2.91	in/min	ISO 3795 (FMVSS 302)

Electrical properties

Relative permittivity, 2GHz	2.73		IEC 61189-2-721
Relative permittivity, 10GHz	2.77		IEC 61189-2-721
Dissipation factor, 2GHz	26	E-4	IEC 61189-2-721
Dissipation factor, 10GHz	31	E-4	IEC 61189-2-721
Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	1090	kV/in	IEC 60243-1
Comparative tracking index	600		IEC 60112

Physical/Other properties

Density	0.0412	lb/in³	ISO 1183

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Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat, High Flow

Additional information

Processing Notes

Storage

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

Revised: 2026-08-12 Source: Celanese Materials Database

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