Celanese
The chemistry inside innovation™

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	230	°C	
Melt mass-flow rate, Load	2.16	kg	

Typical mechanical properties

Tensile modulus	7000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3	%	ISO 527-1/-2
Flexural modulus	6500	MPa	ISO 178
Flexural strength	140	MPa	ISO 178
Charpy impact strength, 23°C	48	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	11.5	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	10	kJ/m²	ISO 180/1A
Poisson's ratio	0.35[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	148	°C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	IEC 60695-11-10
FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	73.3	mm/min	ISO 3795 (FMVSS 302)

Electrical properties

Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	43	kV/mm	IEC 60243-1
Comparative tracking index, 100 drops	600		IEC 60112
Relative permittivity, printed circuits and boards, 2.5 GHz	2.7[1]		IEC 61189-2-721
Relative permittivity, printed circuits and boards, 10 GHz	2.77		IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	26[1]	E-4	IEC 61189-2-721
Dissipation factor, printed circuits and boards, 10 GHz	31	E-4	IEC 61189-2-721

[1]: 1.9GHz

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Physical/Other properties

Density	1140 kg/m³	ISO 1183

Characteristics

Processing	Injection Moulding
Special characteristics	Heat stabilised 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.