



TECNOPRENE® VK6 T1

TECNOPRENE®

Polypropylene, homopolymer. 30% glass fiber reinforced, chemically bonded, high flow, heat stabilized

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Resin Identification	PP-GF30	ISO 1043
Part Marking Code	>PP-GF30<	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	90	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

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	2.7 ^[1]		IEC 61189-2-721
GHz			
Relative permittivity, printed circuits and boards, 10	2.77		IEC 61189-2-721
GHz			
Dissipation factor, printed circuits and boards, 2.5	26 ^[1]	E-4	IEC 61189-2-721
GHz			
Dissipation factor, printed circuits and boards, 10	31	E-4	IEC 61189-2-721
GHz			

[1]: 1.9GHz

Printed: 2025-05-30 Page: 1 of 2

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Physical/Other properties

Density 1130 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.

Printed: 2025-05-30 Page: 2 of 2

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