Celanese
The chemistry inside innovation™

TECNOPRENE® HF GF/30 V0 NAT005 - PP

Description

Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, V0, halogen free

Physical properties	Value	Unit	Test Standard
Density	**1340**	kg/m³	ISO 1183
Melt flow rate, MFR	**3**	g/10min	ISO 1133
MFR temperature	**230**	°C	ISO 1133
MFR load	**2.16**	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	**8400**	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	**80**	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	**2.5**	%	ISO 527-2/1A
Flexural modulus, 23°C	**8000**	MPa	ISO 178
Flexural strength, 23°C	**125**	MPa	ISO 178
Charpy notched impact strength, 23°C	**6.8**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	**140**	°C	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	**138**	°C	ISO 306
Flammability at thickness h	**V-0**	class	UL 94
thickness tested (h)	**1.60**	mm	UL 94
UL recognition (h)	**UL**	-	UL 94
Glow wire ignition temperature, 0.8 mm	**775**	°C	IEC 60695-2-13
Glow wire flammability index, 0.8 mm	**960**	°C	IEC 60695-2-12

Electrical properties	Value	Unit	Test Standard
CTI 100 drops value	**600**	-	IEC 60112

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	**2 - 3**	h	-
Drying temperature	**80 - 100**	°C	-
Temperature	**Value**	**Unit**	**Test Standard**
Zone1 temperature	**180 - 200**	°C	-
Zone2 temperature	**190 - 210**	°C	-
Zone3 temperature	**200 - 220**	°C	-
Nozzle temperature	**205 - 225**	°C	-
Mold temperature	**50 - 80**	°C	-

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	Processing
Flame retardant	Injection molding

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Product Categories	Additives
Glass reinforced	Flame retarding agent