

TECNOPRENE® HF GF/20 V0 - PP

Experimental Grade. Please contact your Celanese representative for further information.

Description

Polypropylene, homopolymer, 20% glass fiber reinforced, chemically coupled, V0, halogen free

Physical properties	Value	Unit	Test Standard
Density	1260	kg/m ³	ISO 1183
Melt flow rate, MFR	4	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	6700	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	70	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	3	%	ISO 527-2/1A
Flexural modulus, 23°C	6200	MPa	ISO 178
Charpy notched impact strength, 23°C	6	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	138	°C	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	136	°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

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
Product Categories	Additives
Glass reinforced	Flame retarding agent