

TECNOPRENE® FK5U SR - PP

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

Description

Polypropylene, 25% glass fiber reinforced, chemically coupled, UV stabilised, scratch resistant

Physical properties	Value	Unit	Test Standard
Density	1090	kg/m ³	ISO 1183
Melt flow rate, MFR	9	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	5000	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	68	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	4	%	ISO 527-2/1A
Flexural modulus, 23°C	4800	MPa	ISO 178
Flexural strength, 23°C	110	MPa	ISO 178
Charpy notched impact strength, 23°C	12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	Value	Unit	Test Standard
Shore D hardness, 15s	70	-	ISO 868

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	138	°C	ISO 75-1, -2
Flammability @1.6mm nom. thickn.	HB	class	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	200 - 220	°C	-
Zone2 temperature	220 - 240	°C	-
Zone3 temperature	240 - 260	°C	-
Nozzle temperature	240 - 260	°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

UV resistant

Processing

Injection molding

Product Categories

Glass reinforced