

POLIFOR® 12 TR/20 UV GRIGIO 7097 Y1 - PP

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

Description

Polypropylene, 20% mineral filled, UV stabilised.

Physical properties	Value	Unit	Test Standard
Density	1050	kg/m ³	ISO 1183
Melt flow rate, MFR	10	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	2700	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	31	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	2.5	%	ISO 527-2/1A
Tensile strain at break, 50mm/min	10	%	ISO 527-2/1A
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength, 23°C	44	MPa	ISO 178
Charpy impact strength, 23°C	75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.5	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	3.8	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	62	°C	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	88	°C	ISO 306
Flammability @1.6mm nom. thickn.	HB	class	UL 94
Glow wire flammability index, 3.2 mm	650	°C	IEC 60695-2-12

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	190 - 210	°C	-
Zone2 temperature	210 - 230	°C	-
Zone3 temperature	220 - 240	°C	-
Melt temperature	230 - 250	°C	-
Mold temperature	30 - 60	°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

Mineral reinforced