

POLIFOR® QD813 Y001 UV WOD

POLIFOR®

Polypropylene, 30% glass fiber reinforced, chemically coupled, V0, PBDE free, UV stabilised.

Product information

Resin Identification	PP-GF30	ISO 1043
Part Marking Code	>PP-GF30<	ISO 11469

Rheological properties

Melt mass-flow rate	4 g/10min	ISO 1133
Melt mass-flow rate, Temperature	230 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage, parallel	0.2 %	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.1 - 0.3 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.6 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4 - 0.7 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	8600 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	62 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3 %	ISO 527-1/-2
Flexural modulus	8000 MPa	ISO 178
Charpy impact strength, 23°C	45 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	9 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	10 kJ/m ²	ISO 180/1A
Poisson's ratio	0.34 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	138 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	120 °C	ISO 306

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	IEC 60695-11-10
Thickness tested	1.5 mm	IEC 60695-11-10
UL recognition	yes	UL 94
Burning Behav. at thickness h	V-0 class	IEC 60695-11-10
Thickness tested	3 mm	IEC 60695-11-10
UL recognition	yes	UL 94
Burning Behav. 5V at thickness h	5VA class	IEC 60695-11-20
Thickness tested	3 mm	IEC 60695-11-20
UL recognition	yes	UL 94
Glow Wire Flammability Index, 3.0mm	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature, 3.0mm	775 °C	IEC 60695-2-13

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Electrical properties

Relative permittivity, printed circuits and boards, 2.5 GHz	3.2	IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	43 E-4	IEC 61189-2-721

Physical/Other properties

Density	1490 kg/m ³	ISO 1183
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Characteristics

Processing	Injection Moulding
Additives	Flame retardant
Special characteristics	Flame retardant, U.V. stabilised or stable to weather

Additional information

Processing Notes

Storage

This product should be stored in a covered facility and kept away from moisture and heat.