



POLIFOR® QD813 Y001 UV WOD

POLIFOR®

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

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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 2	30	°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	0.3	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal 0.4 - 0	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/m²	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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Revised: 2024-03-28 Source: Celanese Materials Database





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Electrical properties

Relative permittivity, printed circuits and boards, 2.5 3.2 IEC 61189-2-721

GHz

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

GHz

Physical/Other properties

Density 1490 kg/m³ ISO 1183

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.

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