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	446	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage range, parallel	0.1 - 0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.4 - 0.7	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.25E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	8990	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3	%	ISO 527-1/-2
Flexural modulus	1.16E6	psi	ISO 178
Charpy impact strength, 23°C	21.4	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.28	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	4.76	ftlb/in²	ISO 180/1A

Thermal properties

Temperature of deflection under load, 1.8 MPa	280	°F	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	248	°F	ISO 306

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	0.0591	in	IEC 60695-11-10
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.1181	in	IEC 60695-11-10
Burning Behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	0.1181	in	IEC 60695-11-20
UL recognition	yes		UL 94
Glow Wire Flammability Index, 3.0mm	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature, 3.0mm	1430	°F	IEC 60695-2-13

Electrical properties

Relative permittivity, 2GHz	3.2		IEC 61189-2-721
Dissipation factor, 2GHz	43	E-4	IEC 61189-2-721

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Physical/Other properties

Density	0.0538 lb/in^3	ISO 1183

Characteristics

Processing	Injection Molding
Additives	Flame retardant
Special characteristics	Flame retardant, U.V. stabilized 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.

Revised: 2026-02-18 Source: Celanese Materials Database

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