Celanese
The chemistry inside innovation™

POLIFOR® QD813 Y001 UV WOD

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

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
Stress at break, 5mm/min	62	MPa	ISO 527-1/-2
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/m²	ISO 179/1eA
Izod notched impact strength, 23°C	10	kJ/m²	ISO 180/1A

Thermal properties

Temp. of deflection under load, 1.8 MPa	138	°C	ISO 75-1/-2

Flammability

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

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

Other properties

Density	1490	kg/m³	ISO 1183

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Injection

Drying Temperature	80 - 100	°C
Drying Time, Dehumidified Dryer	2 - 3	h
Max. mould temperature	50 - 80	°C

Characteristics

Additives	Flame retardant

Processing Texts

Longer pre-drying times/storage	This product should be stored in a covered facility and kept away from moisture and heat.

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