

POLIFOR® QD813 Y001 WOD - PP

Description

Polypropylene, 30% glass fiber reinforced, chemically coupled, UL94 V0, PBDE free.

Physical properties	Value	Unit	Test Standard
Density	1490	kg/m ³	ISO 1183
Melt flow rate, MFR	3	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	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, 23°C	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 impact notched, 23°C	10	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	138	°C	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	120	°C	ISO 306
Flammability @3.2mm nom. thickn.	V-0	class	UL 94
Flammability at thickness h	V-0	class	UL 94
thickness tested (h)	1.50	mm	UL 94
UL recognition (h)	UL	-	UL 94
Flammability 5V at thickness h	5VA	class	UL 94
thickness tested (5V)	3.0	mm	UL 94
UL recognition (5V)	UL	-	UL 94
Glow wire ignition temperature, 3.2 mm	775	°C	IEC 60695-2-13
Glow wire flammability index, 3.2 mm	960	°C	IEC 60695-2-12

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Drying time	2 - 3	h
Drying temperature	80 - 100	°C

Temperature	Value	Unit
Zone1 temperature	190 - 210	°C
Zone2 temperature	200 - 220	°C
Zone3 temperature	210 - 230	°C
Nozzle temperature	210 - 230	°C
Mold temperature	50 - 80	°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 Flame retardant

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Product Categories	Glass reinforced
Processing	Injection molding
Additives	Flame retarding agent

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General Disclaimer

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