

POLIFOR® QD818 Y001 WOD - PP

Description

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

Physical properties	Value	Unit	Test Standard
Density	1450	kg/m ³	ISO 1183
Melt flow rate, MFR	4.5	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	9000	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	75	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	2.6	%	ISO 527-2/1A
Flexural modulus, 23°C	8500	MPa	ISO 178
Charpy impact strength, 23°C	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	6.5	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	145	°C	ISO 75-1, -2
Flammability @1.6mm nom. thickn.	V-0	class	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	Test Standard
Drying time	2 - 3	h	-
Drying temperature	80 - 100	°C	-
Temperature	Value	Unit	Test Standard
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	Processing
Flame retardant	Injection molding
Product Categories	Additives
Glass reinforced	Flame retarding agent