Celanese
The chemistry inside innovation™

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/m³	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/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	**9**	kJ/m²	ISO 179/1eA
Izod impact notched, 23 °C	**10**	kJ/m²	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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