

CELCON® GC10UV - POM

Description

Celcon® acetal copolymer grade GC10UV is a specialty grade combining glass coupling for improved strength and stiffness and UV stabilization for improved performance in exposure to artificial lighting and sunlight.

Physical properties	Value	Unit	Test Standard
Density	1470	kg/m ³	ISO 1183

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	4000	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	60	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	9	%	ISO 527-2/1A
Flexural modulus, 23°C	3600	MPa	ISO 178
Charpy notched impact strength, 23°C	3.5	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	4	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	135	°C	ISO 75-1, -2

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	170 - 180	°C	-
Zone2 temperature	180 - 190	°C	-
Zone3 temperature	180 - 190	°C	-
Zone4 temperature	190 - 200	°C	-
Nozzle temperature	190 - 200	°C	-
Melt temperature	180 - 200	°C	-
Mold temperature	90 - 120	°C	-
Hot runner temperature	190 - 210	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	20	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow	-	-

Other text information

Pre-drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

Characteristics

Special Characteristics	Processing
UV resistant	Injection molding
Product Categories	Delivery Form
Glass reinforced	Pellets