Celanese
The chemistry inside innovation™

CELSTRAN® PA66-GF50-28 AD3020

CELSTRAN® Long Fibre

Product information

Resin Identification	PA66-LGF50	ISO 1043
Part Marking Code	>PA66-LGF50<	ISO 11469

Typical mechanical properties

Tensile modulus	16100	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	235	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8	%	ISO 527-1/-2
Flexural modulus	14300	MPa	ISO 178
Flexural strength	380	MPa	ISO 178
Charpy notched impact strength, 23 °C	37	kJ/m²	ISO 179/1eA
Poisson's ratio	0.33[C]		

[C]: Calculated

Physical/Other properties

Density	1560	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	295	°C
Min. melt temperature	285	°C
Max. melt temperature	305	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	70	°C
Max. mould temperature	120	°C
Hold pressure range	50 - 100	MPa
Back pressure	3	MPa

Characteristics

Processing	Injection Moulding
Special characteristics	Heat stabilised or stable to heat