CELANEX® 1462Z

PBT-GF30 Celanese

Product Texts

Celanex 1462Z is a general purpose, 30% glass reinforced polybutylene terephthalate with a good balance of mechanical properties and processability.

Flammability at thickness h (0.8 mm)	HB	-

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.4**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Stress at break	**135**	MPa	ISO 527
[C] Strain at break	**2.6**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**7.2**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**60**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**207**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**225**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**25**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**128**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1520**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Lubricants

Applications
General Purpose

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
Injection speed, injection pressure and holding pressure should be optimized to the individual article geometry. To avoid material degradation during processing low back pressure and minimum screw speed need to be used. Overheating of the material has to be avoided. Up to 25% clean and dry regrind may be used.