CELANEX® 1632Z

PBT-GF15 Celanese

Product Texts

Celanex 1632Z is a general purpose, 15% fiberglass 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	**0.5**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.0**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**5400**	MPa	ISO 527
[C] Stress at break	**95**	MPa	ISO 527
[C] Strain at break	**5.4**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**5.4**	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	**189**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**217**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**40**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**110**	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] Humidity absorption	**0.1**	%	Sim. to ISO 62
[C] Density	**1410**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Applications
General Purpose

Delivery form
Pellets

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

Additives
Lubricants

Other text information

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