VESTODUR® X9400

PBT-GF10 Evonik Operations GmbH

Product Texts

Glass fiber-reinforced, modified polybutylene terephthalate compound with decreased shrinkage

VESTODUR® X9400 NC is a 10% glass fiber-reinforced, polymer-modified polybutylene terephthalate compound. Moldings of this compound show decreased shrinkage.

The compound is suitable for parts that are subjected to high mechanical or thermal loads. Compared with commonly used glass fiber-reinforced PBT compounds with similar stiffness parts of VESTODUR® X9400 have in particular a high surface quality.

VESTODUR® X9400 is supplied as cylindrical pellets in polyethylene packaging.

For information, please follow the general recommendations in our flyer "VESTODUR® Polybutylene terephthalate - Compounds".

The use of colorants may affect property values.

Inside the original and undamaged packaging, the product has a shelf life of at least 2 years when stored in dry rooms at tempIeratures not exceeding 30°C.

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM
OR VISIT OUR PRODUCT AT WWW.VESTODUR.COM

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**4500**	MPa	ISO 527
[C] Yield stress	**103**	MPa	ISO 527
[C] Yield strain	**4**	%	ISO 527
[C] Nominal strain at break	**4**	%	ISO 527
[C] Charpy impact strength, +23°C	**50**	kJ/m²	ISO 179/1eU
[C] Type of failure	**C**	-	-
[C] Charpy impact strength, -30°C	**45**	kJ/m²	ISO 179/1eU
[C] Type of failure	**C**	-	-
[C] Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C**	-	-
[C] Charpy notched impact strength, -30°C	**5**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C**	-	-

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**218**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**66**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**110**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**200**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**179**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**30**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**40**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1350**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Processing conditions acc. ISO	**7792**	-	ISO ....-2
[C] Injection Molding, melt temperature	**260**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294
Injection Molding, pressure at hold	**70**	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Natural Color

Special Characteristics
Heat stabilized or stable to heat

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