

Product Texts

Low-shrinkage, polymer-modified polybutylene terephthalate compound

VESTODUR® X7396 is an unreinforced, heat-stabilized and polymer-modified polybutylene terephthalate (PBT) compound with low shrinkage for extrusion.

The compound is especially suitable for the manufacture of stiff, small-diameter tubing, e.g. loose buffering for fiber optics.

Compared with standard PBT compounds VESTODUR® X7396 has a higher hardness. This permits cable jacketing as a protective cover against rodent attacks.

VESTODUR® X7396 is supplied as cylindrical pellets in polyethylene packaging.

In the brochure "Engineering thermoplastics for high performance secondary fiber optic jacketing" instructions are given on the extrusion of loose or tight buffering for fiber optics.

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 temperatures 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] Melt volume-flow rate, MVR	43	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	10	kg	-
^[C] Molding shrinkage, parallel	1.3	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.3	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2600	MPa	ISO 527
^[C] Yield stress	65	MPa	ISO 527
^[C] Yield strain	4	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	220	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	5.5	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C	-	-
^[C] Charpy notched impact strength, -30°C	4.5	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C	-	-

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			

^[C] Melting temperature, 10°C/min	220	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	56	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	65	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	115	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
^[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] Water absorption	0.48	%	Sim. to ISO 62
^[C] Humidity absorption	0.35	%	Sim. to ISO 62
^[C] Density	1250	kg/m ³	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

Film Extrusion, Pipe/Tube Extrusion, Other Extrusion

Delivery form

Pellets

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

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