

Product Texts

High viscosity polybutylene terephthalate resin with improved hydrolysis and heat resistance

VESTODUR® 3030 is a high viscosity polybutylene terephthalate (PBT) resin for the extrusion that is optimized in respect to hydrolysis and heat resistance.

The compound is best suited for manufacturing stiff, small-diameter tubing, e. g. for loose fiber optic buffer tubes.

VESTODUR® 3030 is supplied as cylindrical pellets in polyethylene packaging, ready for processing.

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	9	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
^[C] Molding shrinkage, parallel	1.7	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.7	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2500	MPa	ISO 527
^[C] Yield stress	56	MPa	ISO 527
^[C] Yield strain	4	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Tensile creep modulus, 1h	2600	MPa	ISO 899-1
^[C] Tensile creep modulus, 1000h	1500	MPa	ISO 899-1
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	5	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C	-	-
^[C] Charpy notched impact strength, -30°C	4	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C	-	-
^[C] Shore D hardness	77	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	223	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	45	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	55	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	135	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	180	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	110	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 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] Oxygen index	23	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.3	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	230	E-4	IEC 62631-2-1
^[C] Surface resistivity	1E13	Ohm	IEC 62631-3-2
^[C] Electric strength	27	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.45	%	Sim. to ISO 62
^[C] Humidity absorption	0.15	%	Sim. to ISO 62
^[C] Density	1310	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

Injection Molding, Film Extrusion, Pipe/Tube Extrusion, Other Extrusion

Delivery form

Pellets

Special Characteristics

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

Chemical Resistance

Hydrolytically Stable

Regional Availability

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