

PBT(Polybutylene terephthalate)

DURANEX®

3216

EF2001/ED3002

(Flame Retardant,
Standard, UL Approved
Regrind 50% Inclusive
grade)

General Properties of 3216

table1-1 General Properties (ISO)

Item	Unit	Test Method	Flame Retardant, Standard, UL Approved Regrind 50% Inclusive
			3216
			GF15% reinforced, Standard
Color			EF2001/ED3002
ISO(JIS)quality-of-the-material display:		ISO11467 (JIS K6999)	>PBT-GF15 FR(17)<
Density	g/cm ³	ISO 1183	1.54
Tensile strength	MPa	ISO 527-1,2	113
Strain at break	%	ISO 527-1,2	2.7
Flexural strength	MPa	ISO 178	173
Flexural modulus	MPa	ISO 178	6050
Charpy impact strength (notched)	kJ/m ²	ISO 179/1eA	7.1
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	208
Coefficient of linear thermal expansion (23 ~55°C、Flow direction)	×10 ⁻⁵ /°C	ISO 11359-2	4
Coefficient of linear thermal expansion (23 ~55°C、Transverse direction)	×10 ⁻⁵ /°C	ISO 11359-2	10
Dielectric breakdown strength (Thickness 3mm)	kV/mm	IEC 60243-1	20
Volume resistivity	Ω·cm	IEC 60093	2 × 10 ¹⁶
Surface resistivity	Ω	IEC 60093	4 × 10 ¹⁶
Tracking resistance (CTI)	CTI	IEC 60112	250
Mold Shrinkage (120□×2mmt, Transverse direction, Injection pressure 60MPa)	%		1.35
Mold Shrinkage (120□×2mmt, Flow direction, Injection pressure 60MPa)	%		0.62
Flowability (bar-shaped cavities(2mm deep))	mm		630
Poisson's ratio			0.37
Flammability		UL94	V-0
The yellow card File No.			E213445
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

All figures in the table are the typical values of the material and not the minimum values of the material specifications.

table1-1 General Properties (ASTM)

Item	Unit	Test Method	Flame Retardant, Standard, UL Approved Regrind 50% Inclusive
			3216
			GF15% reinforced, Standard
Color			EF2001/ED3002
ISO(JIS)quality-of-the-material display:		ISO11467 (JIS K6999)	>PBT-GF15 FR(17)<
Specific gravity		ASTM D792	1.54
Tensile strength	MPa	ASTM D638	112
Tensile elongation	%	ASTM D638	3.5
Flexural strength	MPa	ASTM D790	166
Flexural modulus	MPa	ASTM D790	6080
Izod impact strength (Notch side, 1/4″)	J/m	ASTM D256	58
Izod impact strength (Reversed notch side)	J/m	ASTM D256	440
Izod impact strength (Notch side, 1/8″)	J/m	ASTM D256	—
Temperature of deflection under load (1.82MPa)	℃	ASTM D648	208
Coefficient of linear thermal expansion (room temperature, Flow direction)	×10 ⁻⁵ /℃	ASTM D696	2
Coefficient of linear thermal expansion (room temperature, Transverse direction)	×10 ⁻⁵ /℃	ASTM D696	7
Dielectric breakdown strength (Short-time test:1mmt)	MV/m	ASTM D149	—
Dielectric breakdown strength (Short-time test:2mmt)	MV/m	ASTM D149	20
Volume resistivity (Thickness 3mm)	Ω·cm	ASTM D257	2 × 10 ¹⁶
Surface resistivity (Thickness 3mm)	Ω	ASTM D257	3 × 10 ¹⁶
Arc resistance	s	ASTM D495	-70
Tracking resistance (CTI)		ADTM D3638	-250
Flammability		UL94	V-0
The yellow card File No.			E213445
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

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Polyplastics

POLYPLASTICS CO., LTD.

JR Shinagawa East Building
18-1, Konan 2-chome, Minato-ku, Tokyo 108-8280 Japan
Phone: 81-3-6711-8600

● *Affiliates*

Polyplastics Asia Pacific Sdn. Bhd.(Kuala Lumpur)
Polyplastics Asia Pacific Singapore Pte.Ltd.(Singapore)
Polyplastics Marketing (T) Ltd.(Bangkok)
Polyplastics China Limited (Hong Kong)
Polyplastics (Shanghai) Ltd.(Shanghai)
Polyplastics Trading (Shanghai) Ltd.(Shanghai)
Polyplastics Taiwan Co., Ltd.(Taipei)
PTM Engineering Plastics (Nantong) Co., Ltd.(Nantong)