



PBT Resin
TORAYCON

Basic physical properties

MENU

- * Introduction
- * List of Grade
- * Technical data(Grade)
- * Technical data(Property)
- * Topics

CONTENTS

- * Catalogue download
- * Press release
- * Overseas branch
- * Related links
- * Contact
- * Inquiry

1101G30

Reinforced type / standard,GF30%

		Unit	Test method (ASTM)	1101G-30	
Specific Gravity			D792	1.55	
Water absorption	23 °C, 24hrs in water	%	D570	0.07	
Tensile Yield Strength	23 °C	MPa	D638	145	
Elongation at Break	23 °C	%	D638	5	
Flexural Strength	23 °C	MPa	D790	195	
Flexural Modulus	23 °C	GPa	D790	8.8	
Izod Impact	v-notched	23 °C	J/m	90	
	v-notched	-40 °C		75	
	unnotched	23 °C	kJ/m ²	65	
	unnotched	-40 °C		35	
Rockwell Hardness		M-Scale	D785	M91	
Coefficient of friction	Metal	-	D1894	0.15	
	Self	-		0.19	
Heat Deflection Temp	0.45MPa	°C	D648	220	
	1.82MPa			217	
Coef. of Linear Thermal Expansion		×10 ⁻⁵ /°C	D696	2.0	
UL-94 Flame Class			UL-94	HB(1/32")	
Volume Resistivity		ρ _m ×10 ¹⁴	D257	2.5	
Dielectric Strength(3mmt)		MV/m	D149	23	
Dielectric Constant (23 °C, 60%RH)	50Hz		D150	3.7	
	10 ⁶ Hz			3.6	
Dissipation factor (23 °C, 60%RH)	50Hz		D150	0.002	
	10 ⁶ Hz			0.02	
Arc Resistance		sec	D495	120	
Mold Shrinkage	80×80×3mm (plate)	Machine direction	%	TORAY	0.3
		Transverse direction			1.0
Bar flow 250 °C, 93MPa, 1mmt		×10 ⁻³ m	TORAY	96	

Notes:These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

- ABS Resin
TOYOLAC
- Nylon Resin
Amilan
- PBT Resin
TORAYCON
- PPS Resin
TORELINA
- LCP Resin
SIVERAS
- Super EP
TI Polymer
- Polyolefin Foam
TORAYPEF