



PBT Resin
TORAYCON

Basic physical properties

MENU

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1184G30

Flame retardant reinforced type / V-0,GF30%

		Unit	Test method (ASTM)	1184G-30	
Specific Gravity			D792	1.65	
Water absorption	23 °C, 24hrs in water	%	D570	0.07	
Tensile Yield Strength	23 °C	MPa	D638	145	
Elongation at Break	23 °C	%	D638	4	
Flexural Strength	23 °C	MPa	D790	215	
Flexural Modulus	23 °C	GPa	D790	9.4	
Izod Impact	v-notched	23 °C	J/m	62	
	v-notched	-40 °C		-	
	unnotched	23 °C	kJ/m ²	61	
	unnotched	-40 °C		-	
Rockwell Hardness		M-Scale	D785	M87(R119)	
Coefficient of friction	Metal	-	D1894	0.15	
	Self	-		0.20	
Heat Deflection Temp	0.45MPa	°C	D648	223	
	1.82MPa			210	
Coef. of Linear Thermal Expansion		×10 ⁻⁵ /°C	D696	4.1	
UL-94 Flame Class			UL-94	V-0(1/64")	
Volume Resistivity		ρ _m ×10 ¹⁴	D257	2.5	
Dielectric Strength(3mmt)		MV/m	D149	27	
Dielectric Constant (23 °C, 60%RH)	50Hz		D150	4.0	
	10 ⁶ Hz			3.8	
Dissipation factor (23 °C, 60%RH)	50Hz		D150	0.001	
	10 ⁶ Hz			0.01	
Arc Resistance		sec	D495	123	
Mold Shrinkage	80×80×3mm (plate)	Machine direction	%	TORAY	0.2
		Transverse direction			1.2
Bar flow 250 °C, 93MPa, 1mmt		×10 ⁻³ m	TORAY	80	

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**