

PPS Resin
TORELINA™

Basic physical properties

MENU

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A504X90

Glass fiber reinforced / high strength,high toughness

Grade				A504X90
Property	Units	Test method	-	
Specific Gravity	-	D792	1.67	
Water Absorption	23 °,24hr in water	%	D570	0.02
Tensile Strength	23 °C	MPa	D638	207
Elongation	23 °C	%	D638	3.6
Flexural Strength	23 °C	MPa	D790	275
Flexural Modulus	23 °C	GPa	D790	13.3
Share Strength	-	D732	80	
Izod Impact	V-notched	23 °C	J/m	130
	Unnotched	23 °C	kJ/m ²	55
Rockwell Hardness	R-SCALE	D785	122	
Taber abrasion	mg/1000 cycles	D1044	50	
Coefficient of friction	vs. steel	-	D1894	0.25
Limit PV value	kJ/m ² hr	TORAY	815	
Melting Point	°C	DSC	278	
Heat Deformation Temperature	1.82MPa	°C	D648	>260
Liner Thermal Expansion	Machine direction	×10 ⁻⁵ /K	D696	2.3
	Transverse direction			3.2
UL-94 Flame Class	-	UL-94	V-0	
Volume Resistivity	Ω·m	D257	10 ¹⁶	
Dielectric Strength	MV/m	D149	21	
Dielectric Constant	10 ⁶ Hz	-	D150	3.8
Dissipation factor	10 ⁶ Hz	-	D150	0.002
Arc resistance(W electrode)	second	D495	127	
Mold Shrinkage(3mm)	Machine direction	%	TORAY	0.20
	Transverse direction			0.70
Minimum injection pressure(1/8"t)	MPa	TORAY	-	
Bar flow 320 °C ,98MPa, 1mmt	×10 ⁻³ m	TORAY	100	

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