

# TORELINA® A504FG1

## PPS / Glass Fiber Reinforced (GF40%) / Low Flash

		Unit	Test method (ASTM)	A504FG1
Specific Gravity			D792	1.67
Water Absorption	23°C, 24hrs in water	%	D570	0.02
Tensile Yield Strength	23°C	MPa	D638	165
Elongation at Break	23°C	%	D638	2.8
Flexural Strength	23°C	MPa	D790	220
Flexural Modulus	23°C	GPa	D790	13.7
Izod Impact	v-notched	23°C	J/m	125
	v-notched	-40°C		-
	unnotched	23°C	kJ/m <sup>2</sup>	30
	unnotched	-40°C		-
Rockwell Hardness		R-Scale	D785	123
Tabor Abrasion		Mg/1000 cycles	D1044	50
Coefficient of friction	Metal	-	D1894	0.25
	Self	-		-
PV Value		KJ/m <sup>2</sup> ·hr	TORAY	815
Melting Point		°C	DSC	278
Heat Deflection Temp	0.45MPa	°C	D648	-
	1.82MPa			260
Coef. of Linear Thermal Expansion		×10 <sup>-5</sup> /°C	D696	2.3
UL-94 Flame Class			UL-94	V-0
Volume Resistivity		Ωm×10 <sup>14</sup>	D257	1.0
Dielectric Strength(3mmt)		MV/m	D149	22
Dielectric Constant (23°C, 60%RH)	50Hz		D150	-
	10 <sup>6</sup> Hz			3.6
Dissipation factor (23°C, 60%RH)	50Hz		D150	-
	10 <sup>6</sup> Hz			0.002
Mold Shrinkage	80×80×3mm (plate)	Machine direction	TORAY	0.20
		Transverse direction		0.75
Bar flow 320°C, 98MPa, 1mmt		×10 <sup>-3</sup> m	TORAY	210

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