TORELINA® A310MX04

PPS / Glass Fiber and Mineral Reinforced / Standard Flow

			Unit	Test method (ASTM)	A310MX04
Specific Gravity				D792	1.96
Water Absorption		23°C, 24hrs in water	%	D570	0.02
Tensile Yield Strength		23°C	MPa	D638	150
Elongation at Break		23°C	%	D638	2.3
Flexural Strength		23°C	MPa	D790	195
Flexural Modulus		23°C	GPa	D790	18.9
Izod Impact	v-notched	23°C	J/m	D256	120
	v-notched	-40°C			-
	unnotched	23°C	kJ/m^2		20
	unnotched	-40°C			-
Rockwell Hardness			R-Scale	D785	123
Tabor Abrasion			Mg/1000 cycles	D1044	70
Coefficient of friction		Metal	-	D1894	0.30
		Self	-		-
PV Value			$KJ/m^2 \cdot hr$	TORAY	815
Melting Point			°C	DSC	278
Heat Deflection Temp		0.45MPa	°C	D648	-
		1.82MPa			260
Coef. of Linear Thermal Expansion			$\times 10^{-5}$/°C	D696	1.6
UL-94 Flame Class				UL-94	V-0
Volume Resistivity			$\Omega m \times 10^{14}$	D257	1.0
Dielectric Strength(3mmt)			MV/m	D149	20
Dielectric Constant (23°C, 60%RH)		50Hz		D150	-
		10^6Hz			5.1
Dissipation factor (23°C, 60%RH)		50Hz		D150	-
		10^6Hz			0.002
Mold Shrinkage	80×80×3mm (plate)	Machine direction	%	TORAY	0.15
		Transverse direction			0.55
Bar flow 320°C, 98MPa, 1mmt			$\times 10^{-3}$m	TORAY	105

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