



Property <sup>(1)</sup>		Unit of Measure	ThorPlas-Blue
Colour		—	Blue
Specific Gravity		—	1.4
Hardness ASTM D2240		Shore-D	83
Ultimate Tensile Strength ASTM D638		MPa (psi)	66 (9600)
Elongation at Break		%	~10
Tensile Modulus of Elasticity ASTM D638		MPa (psi)	2940 (426000)
Poisson Ratio		—	0.39
Compressive Strength ASTM D695		MPa (psi)	>400 (58000)
Compressive Stress at Yield (2% offset) ASTM D695		MPa (psi)	91 (13200)
Compressive Modulus of Elasticity ASTM D695		MPa (psi)	3280 (476000)
Notched Impact Resistance ASTM D256		J/m (ft.lb/in.)	40 (0.75)
Coefficient of Friction			
Dry ASTM D3702 (0.27MPa or 40psi)		—	0.15-0.30
Dry (>200 bar or >3000Psi)		—	~0.1
Wet (>200 bar or >3000Psi)		—	0.10-0.17
Wear Rate (vs. mild steel Ra ~10 µin) ASTM D3702		mm <sup>3</sup> /hr (in. <sup>3</sup> /hr)	1.3x10 <sup>-2</sup> (8x10 <sup>-7</sup> )
Abrasive Wear (Rotary Drum Dry Abrasion) ASTM D5963		mm <sup>3</sup> (in. <sup>3</sup> )	~200 (0.012)
Thermal Conductivity		W/m-k (Btu/hr-ft.F)	~0.25 (~0.14)
Coefficient of Thermal Expansion ASTM D696 (modified)		cm/cm/°C (-20°C to 100°C) (in/in/°F) (-4°F to 212°F)	4.6x10 <sup>-5</sup> (2.6x10 <sup>-5</sup> )
Absorption % in Water (22°C), ASTM D570	24-hr	Vol % / Wt%	< 0.05
	Long-term	Vol%	< 0.3
Melting Temperature		°C (°F)	> 250 (> 480)
Operating Temperatures – Min. / Max.	Dry	°C (°F)	-50 (-58) / 110 (230)
	In water	°C (°F)	-10 (14) / 80 (176)

**Notes:**

1) Appearance of ‘~’ is indicative of interpolated values from in-house testing or estimate for the class of polymer.

*The company reserves the right to change or amend the information and the related Technical Specification without notice.*