



Product Information

ESC-Ion Compound HTN-40

High Temperature Nylon Glass Fiber Reinforced (40%)with PTFE Heat Stabilized

Property	Test Method	Units	Value
Mechanical			
Tensile Strength	ASTM D638	Mpa (psi)	190 (27,500)
Tensile Elongation	ASTM D638	%	2.3
Tensile Modulus	ASTM D638	Mpa (psi)	13,000 (2,000,000)
Flexural Strength	ASTM D790	Mpa (psi)	270 (39,400)
Flexural Modulus	ASTM D790	Mpa (psi)	10,000 (1,550,000)
Compressive Strength	ASTM D695	Mpa (psi)	180 (26,000)
Impact Strength		Mpa (psi)	
Notched 1/8"	ASTM D256	J/m (ft-lb/in)	106 (2.0)
Unnotched 1/8"	ASTM D256	J/m (ft-lb/in)	800 (15)
Hardness, Rockwell	ASTM D785	R	126
PHYSICAL PROPERTIES			
Specific Gravity	ASTM D792		1.6
Water Absorption		Mpa (psi)	
24 hrs. @ 73 F (23 C)	ASTM D570	%	0.23
Coefficient of Friction (Dynamic)			0.32
THERMAL PROPERTIES			
Deflection Temperature			
@264 psi (1.8 Mpa)	ASTM D648	C (F)	280 (540)
@66 psi (0.45Mpa)	ASTM D648	C (F)	N/A (N/A)
Coefficient of Linear			
Thermal Expansion	ASTM D696	m/m/C (in/in/F)	.000022 (.000012)
Color	Black		