TECHNICAL INFORMATION

TIVAR® 88 with BurnGuard

Physical Properties

Property	Method	SI Unit	SI Value	English Unit	English Value
Density	ASTM D-792	kg/m^3	1000	lbs/ft^3	62.38
Yield Point	ASTM D-638	MPa	19	psi	2755
Elongation at Yield	ASTM D-638	%	15	%	15
Tensile Break	ASTM D-638	MPa	24.6	psi	3567
Elongation at Break	ASTM D-638	%	111	%	111
Tensile Modulus	ASTM D-638	MPa	600	psi	87,000
Flexural Modulus	ASTM D-790	MPa	642	psi	93,100
Izod Impact	ASTM D-4020	kJ/m^2	88	$ft\text{-}lbs/in^2$	42
Tensile Impact	DIN 53448	kJ/m^2	432	$ft\text{-}lbs/in^2$	206
Sand Wheel Wear	ASTM G-65,	T-1000=100	126	T-1000=100	126
Hardness	ASTM D-2240	Type D	64	Type D	64
Static Friction	ASTM D-1894	Unitless	0.18	Unitless	0.18
Dynamic Friction	ASTM D-1894	Unitless	0.09	Unitless	0.09
Coefficient of Thermal Exp.	ASTM D-696	$mm/^0C$	0.005	$In/^oF$	0.00011
Melt Point	ASTM D-3417	^0C	137-143	^0F	278-289
Maximum Operating Temp.		^0C	62	^0F	180
Volume Resistivity	ASTM D-257	Ohm-cm	$>10^{12}$	Ohm-cm	$>10^{12}$
Surface Resistivity	ASTM D-257	Ohm	$>10^{12}$	Ohm	$>10^{12}$
Water Absorption	ASTM D-570	%	nil	%	nil

* Values are averages and are not specifications.

** ASTM test methods are under current procedures.

IMPORTANT: Most plastics will ignite and sustain flame under certain conditions. Caution is urged where any material may be exposed to open flame or heat-generating equipment Use Material Safety Data Sheets to determine auto-ignition and flashpoint temperatures of materials, or consult Poly Hi Solidur, Fort Wayne, Indiana if additional information is needed.

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