HYDEL® PEI-7

Polyether Imide

Ensinger Inc.

Message:

In recent years, industry has demanded a range of materials that not only possess strength, wear properties, heat and chemical resistance but materials that are less resistive to the build-up of a static charge. Ensinger has a family of such materials; their properties are listed on the reverse side of this sheet and described below.
A static dissipative polyetherimide utilizing proprietary filler technology which renders this material electrically conductive. This technology allows for good dimensional stability after machining (unlike conventional carbon fibers), consistent electrical properties, excellent surface quality and minimal sloughing. It also possesses outstanding toughness and excellent thermal stability.

General Information	
Filler / Reinforcement	Proprietary packing
Features	Good dimensional stability
	Excellent appearance
	Conductivity
	Good strength
	Good chemical resistance
	Good wear resistance
	Heat resistance, high
	Thermal stability, good
	Good toughness

Forms	Shapes		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.33	g/cm³	ASTM D792
Water Absorption (Equilibrium)	0.25	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength (Yield)	64.8	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	112	MPa	ASTM D790
Compressive Strength	112	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact	75	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	171	°C	
CLTE - Flow	5.2E-5	cm/cm/°C	ASTM D696
Heat Deflection Temperature	199	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6 - 1.0E+9	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Additional Information
Data obtained from extruded shapes material.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China