

TYPICAL PROPERTIES DATA SHEET

Hony Engineering Plastics Limited

Typical Properties Data Sheet of REXOLITE®1422 & REXOLITE®2200

		REXOLITE®1422	REXOLITE®2200
I. Electrical properties			
	Dielectric constant at 1MHz - 500GHz	2.53	2.62
	Typical dissipation factor at: 1MHz	0.00012	0.0004
	Typical dissipation factor at: 10MHz	0.00025	0.0005
	Typical dissipation factor at: 10GHz	0.00066	0.0014
	Volume resistivity (Ohm-cm)	> 10 ¹⁶	5 x 10 ¹³
	Surface resistivity (Ohm)	> 10 ¹⁴	5 x 10 ¹²
	Dielectric strength - step by step (volts/Mil)	500	500
II. Physical property			
	Density (lb/in ³)	0.038	0.042
	(g/cm ³)	1.05	1.11
	Specific gravity	1.05	1.11
	Tensile strength (psi)	9000	9500
	Flexural strength (psi)	11500	10500
	Impact strength - Room temperature to -75°C (Ft lb./In. of notch)	0.3	0.75
	Coefficient thermal expansion (1°C)	7.0 x 10 ⁻⁵	5.7 x 10 ⁻⁵
	Thermal conductivity - Col/Sec/cm°C/cm	3.5 x 10 ⁻⁴	5.0 x 10 ⁻⁴
	Recommended operating temperature range	-60° to +100°C	-75° to +100°C
	Acoustic impedance - Velocity of sound	93 x 10 ³ /sec	
III. Chemical property			
	Water absorption	.05 Max	.10 Max
	Alkalis (Sodium/Potassium Hydroxide)	No effect	No effect
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	Alcohols (Methanol/Isopropanol)	No effect	No effect
	Aliphatic Hydrocarbons (Pentane, Cyclohexane, n-Heptane, n-Hexane)	No effect	No effect
	Aromatic Hydrocarbons (Benzene, toluene, xylene, styrene)	Swells	Swells
	Mineral Acids (Hydrochloric, Sulfuric, Nitric)	No effect	No effect
	Chlorinated Hydrocarbons (Carbon Tetrachloride, Chloroform)	Swells	Swells
IV. Optical property			
	Visible light 1" thick	87%	
	Refractive index 589	1.59	
	Refractive index 486	1.604	
	Refractive index 656	1.585	

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NOTE: 1 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 1kV/mm = 1 MV/m

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. HONY will not provide any legally binding guarantee of certain properties, or any suitability.