

industries3r.com

Danville office

Industries 3R inc. 55, Road 116 West Danville (Quebec) Canada J0A 1A0

Telephone: (819) 839-2793 Fax: (819) 839-2797 Toll-free: (800) 567-2728 Email: info@industries3r.com

Montreal office

Industries 3R inc. 1479, Begin street Ville St-Laurent (Quebec) Canada H4R 1V8 Telephone: (514) 333-3971 Fax: (514) 333-7224 Email: info@industries3r.com

GPO-1 GPO-1

GPO-1 is a is a high temperature polyester laminate that exhibits excellent retention of electrical and mechanical properties at elevated temperatures. UL, Inc. has granted GPO-1 the highest thermal recognition ever achieved by any glass polyester laminate (U.L. File No. E81893).



APPLICATIONS

The GPO-1 is designed for use in high voltage transformers, D.C. motors and elsewhere when materials with high thermal indices are required.

SPECIFICATIONS

Physical Data

Color	Tan
Barcol Hardness, Scale	52
Specific gravity (ASTM D-792)	1.62
Density, Lbs/In³	0.050
Water absorption % (ASTM D-229)	0.30
UL Flammability, Class (UL94)	НВ
Flame Resistance	·
Ignition Time, Seconds (ASTM D-229)	77
Burning Time, Seconds (ASTM D-229)	256
Coeffecient of Thermal Expansion, In/In/°C (ASTM D- 696)	2.9 x 10^-5
Operating Temperature, °C	210

Tensile Strength, psi (ASTM D-638)	13 000
Flexural Strenght, psi (ASTM D-790)	25 000
Modulus of Elasticity in Flexure, psi (ASTM D-790)	1.70 x 10^6
Compressive Strenght, psi (ASTM D-695)	33 000
Bond Strength, Thickness 1/2", psi (ASTM D-229)	1 400
Shear Strength, psi (ASTM D-732)	14000
Impact Strength, Izod Edgewise, Ft Ibs/In Notch (ASTM D-256)	10.1

Electrical Data

Dielectric strength, Perpendicular, Short Time In Oil 1/16" VPM (ASTM D-149)	400
Dielectric Strenght, Parallel, Step-By-Step In Oil, KV (ASTM D149)	62.0
Arc Resistance, Seconds (ASTM D-495)	150
Dielectric constant @ 60Hz (ASTM D-150)	4.20
Dissipation factor @ 60Hz (ASTM D-150)	0.01

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.