



General Properties

Mechanical Strength (kg/cm ²)	Rods + Bars	Profiles + Tubes
Ultimate Flexural Strength	8,000	3,000
Flexural Modulus	400,000	200,000
Ultimate Tensile Strength	7,000	2,500
Tensile Modulus	400,000	400,000
Ultimate Compressive Strength	4,200	2,500
Compressive Modulus		180,000
Ultimate Shear Strength (Torque)	390	390
Ultimate Bearing Stress		2,100
Izod Impact Strength (ASTM D-256) Ft/Lbs per inch of notch		25
Barcol Hardness	50	50
Poisson's ratio, inch per inch	0.33	0.33

Electrical Strength		
Electrical Strength short-term in oil KV per inch **	60	35
Dielectric constant 60 Hz. (ASTM 150)*	6	5.6
Dissipation Factor 60 Hz. (ASTM 150)*	0.01	0.03
Arc Resistance (ASTM D-495) secs. ***	150	120

Thermal		
Thermal Coefficient of Expansion (ASTM D-696), inches/inch/F ⁰ ***	3x10	5x10
Thermal Conductivity BTU per sq. ft./hr/ F ⁰ /in.	5	4
Specific Heat BTU/lb / F ⁰	0.24	0.28
Specific Gravity (ASTM D-792)	1.8 - 2.1	1.72 - 1.86
Water Absorption, 24 hr. immersion (ASTM D-570), max. % by weight	0.25	0.60

Fire Retardant Properties	General
Intermittent Flame Test (HLT-15) rating	100
UL-94 Flammability Classification	V-1 ^
Surface spread of flame (class B.S 476 Part 7:1971)	1

Operational Temperatures (Celsius)	(-)40 to (+)120
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* Specimen tested perpendicular to laminate face.

** 1" long specimen tested parallel to laminate face using 2" die electrodes.

*** Indicated reported value measured in longitudinal direction.

^ V-0 classification is available upon customers' request.

Modulus of elasticity shown in bending properties is minimum standard.

Please note:

1. Above data is for all of **Pas-Gon** profiles.
2. Properties for specific profiles (in stock or custom-made) as well as additional or improved properties are available upon request.
3. Different resin formulations can provide even greater resistance to various chemicals – if required, please consult with us.
4. For information or guidance concerning use of profiles in environment with chemicals, which were not listed, please consult with us.
5. Any uncoated, exposed, sawed or drilled fiber surface is easily "attacked" by potentially corrosive "agents". Therefore, for improved chemical resistance and profile performance, these areas should be carefully resin dipped and/or protected by other means.
6. All profiles that are more than 10mm. in diameter are manufactured with a special polyester veil in order to prevent the glass roving from "sticking out" on the surface.
7. The data in this publication is accurate and reliable to the best of our knowledge.