RLON® 4301 PAI

The addition of graphite and PTFE provides higher wear resistance and lower coefficient of friction compared to the unfilled grade as well as little or no stick-slip in use. This extruded grade excels in severe wear applications such as non-lubricated bearings, seals, bearings cages and reciprocating compressor parts.



at gilbert curry industrial plastics telephone 0800 321 3085

Physical properties (indicative values*)

Test methods ISO/(IEC)	Units	VALUES
_	_	black
1183	a/cm³	1.45
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62	ma	26
		0.30
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	- 52	
		6.0
		5.4
	_	0.037 0.042
		150/(IEC) ———————————————————————————————————

Note: 1 g/cm3 = 1,000 kg/m3; 1 MPa = 1 N/mm2; 1 kV/mm = 1 MV/m

NA: not applicable

Availability

Round Rods: Ø 6.35-50.80 mm - Plates: Thicknesses 6.35-25.40 mm

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Legend

- (1) According to method 1 of ISO 62 and dople x 3mn
- Only for short time exposure (a few hours) (in applications where no or only a very low load is applied to the material.
- Temperature resistance over a period of min. 20,000 hours. After this period of time, there is a decrease in tensile strength of about 50% as compared with the original value. The temperature value given here is thus based on the thermal-oxidative degradation which takes place and causes a reduction in properties. Note, however, that the maximum allowable service temperature depends in many cases essentially on the divation and the magnitude of the mechanical stresses to which the material is subjected.

These postly estimated ratings, derived from raw material supplier data, are not intended to reflect hazards presented by the materials under actual fire conditions. There is no OL-yellow card available for TORLON 4301 PAI stock shapes. Test specimens: Type 1 B.

- (6) (fest speed: 5 mm/min.
- Test speed: 1 mm/min.
- (8) Test specimens: cylinders Ø 12 x 30 mm.
- 10 mm thick test specimens.
- This table is a valuable help in the choice of a material. The data listed here fall within the normal range of product properties of dry material. However, they are not guaranteed and they should not be used to establish material specification limits nor used alone as the basis of design.

It has to be noted that TORLON 4301 PAI is a filled, and consequently anisotropic material (properties differ when measured parallel and perpendicular to the extrusion