PTFE Graphite 10

PTFE-GR10-01

SAMPLE DATA. THIS GRADE SHOWS HOW A PASCALOR DATASHEET LOOKS. THE VALUES ARE NOT MEASUREMENTS OF A REAL PRODUCT.

10 wt% graphite. The lowest-friction filled grade, gentle on soft shafts and aluminium, with the broad chemical range of PTFE.

POLYMER CLASS PTFE	POLE MARK HPHT and HPLT	FILLER Graphite 10 wt%	HARDNESS 60 Shore D
TEMPERATURE RANGE -200 to 260 °C	LEAD TIME 4 to 6 weeks	MINIMUM ORDER 25 kg	ISSUED 2026-11-08
REVISION A	PACKING Per order		

TYPICAL PROPERTIES AND RELEASE LIMITS

PROPERTY	TYPICAL	LIMITS	UNIT	METHOD
Filler content (total, by weight)	10	8.5 to 11.5	wt %	Ash or TGA
Specific gravity	2.16	2.12 to 2.2	g/cm³	ASTM D792
Tensile strength	18	min 14	MPa	ASTM D4745 / D638
Elongation at break	220	min 154	%	ASTM D4745 / D638
Hardness (Shore D)	60	57 to 63	Shore D	ASTM D2240
Deformation under load	7.5	max 9	%	ASTM D621, 6.9 MPa, 24 h, 23 °C
Coefficient of friction (dynamic)	0.11	max 0.15		ASTM D3702, dry, steel counterface
Specific wear rate	3	max 6	10^{-6} mm³/(N·m)	ASTM D3702, dry, steel counterface
PV limit	0.18	min 0.14	MPa·m/s	Dry sliding, steel counterface
Thermal conductivity	0.36	min 0.31	W/(m·K)	ISO 22007-2
Linear thermal expansion	110	max 120	10^{-6} /K	ASTM E831, 23 to 100 °C

Typical values are mean results on compression-moulded and sintered test plaques made in the laboratory unless a method says otherwise. Properties of a finished part depend on the moulding or ram-extrusion route, the sintering cycle and the direction of flow. Limits apply to lot release. They are not a warranty of fitness for a particular use. Confirm suitability on your own counterface, fluid and temperature.

Every lot is supplied with a certificate of analysis. Enter the lot ID under Track on the website to see the lot record. Pascalor is an independent brand and is not affiliated with any polymer manufacturer named elsewhere on this site.

Registered entity name to be added | quotes@pascalor.com