PTFE Carbon-graphite 25

PTFE-CG25-01

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

25 wt% carbon-graphite. Good wear in steam, water and dry running, and kinder to softer counterfaces than glass. A common compressor-ring grade.

POLYMER CLASS PTFE	POLE MARK HPHT	FILLER Carbon-graphite 25 wt%	HARDNESS 65 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)	25	23.5 to 26.5	wt %	Ash or TGA
Specific gravity	2.09	2.05 to 2.13	g/cm³	ASTM D792
Tensile strength	14	min 11	MPa	ASTM D4745 / D638
Elongation at break	130	min 91	%	ASTM D4745 / D638
Hardness (Shore D)	65	62 to 68	Shore D	ASTM D2240
Deformation under load	4.5	max 6	%	ASTM D621, 6.9 MPa, 24 h, 23 °C
Coefficient of friction (dynamic)	0.13	max 0.17		ASTM D3702, dry, steel counterface
Specific wear rate	0.45	max 0.9	10^{-6} mm³/(N·m)	ASTM D3702, dry, steel counterface
PV limit	0.5	min 0.4	MPa·m/s	Dry sliding, steel counterface
Thermal conductivity	0.55	min 0.5	W/(m·K)	ISO 22007-2
Linear thermal expansion	95	max 105	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