PTFE Carbon fibre 20

PTFE-CF20-01

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

20 wt% carbon fibre. High compressive strength and a wide chemical range, including hydrofluoric acid and hot alkali. For steam, hot water and hard counterfaces.

POLYMER CLASS PTFE	POLE MARK HPHT	FILLER Carbon fibre 20 wt%	HARDNESS 66 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)	20	18.5 to 21.5	wt %	Ash or TGA
Specific gravity	2.08	2.04 to 2.12	g/cm³	ASTM D792
Tensile strength	15	min 12	MPa	ASTM D4745 / D638
Elongation at break	150	min 105	%	ASTM D4745 / D638
Hardness (Shore D)	66	63 to 69	Shore D	ASTM D2240
Deformation under load	4	max 5.5	%	ASTM D621, 6.9 MPa, 24 h, 23 °C
Coefficient of friction (dynamic)	0.15	max 0.19		ASTM D3702, dry, steel counterface
Specific wear rate	0.5	max 1	10^{-6} mm³/(N·m)	ASTM D3702, dry, steel counterface
PV limit	0.45	min 0.36	MPa·m/s	Dry sliding, steel counterface
Thermal conductivity	0.45	min 0.4	W/(m·K)	ISO 22007-2
Linear thermal expansion	80	max 90	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