

Polytetrafluoroethylene – Stock Shapes

Chemical	desig	nation
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P	Г	F	Е

Colour

White

Density

2.15 g/cm³

Fillers

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		≥20	MPa	ISO 12086 ISO 527	
Elongation at break		≥200	%	ISO 12086 ISO 527	
Compression strength	1% deformation	4-5	N/mm ²	ASTM D695	
Thermal properties	parameter	value	unit	norm	comment
Service temperature	long term	260	°C		
Thermal expansion (CLTE)	23-100°C, long.	12-13	10 ⁻⁵ *K ⁻¹	ASTM D696	
Electrical properties	parameter	value	unit	norm	comment
Dielectric strength	0.5mm thick	20-40	kV/mm	ASTM D149	

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