



PEEK (PolyEtherEtherKetone)

Physical Property	ASTM Test Method	Units	Value
Tensile strength 23°C	D638	MPa	97
		psi	14068
Tensile strength -40°C	D638	MPa	~
		psi	~
Elongation at 23°C	D638	%	~
Elongation at break	D638	%	25
Hardness	D785	Shore D	88
		Rockwell R	~
Flexural strength	D790	MPa	170
		psi	24656
Deformation under load 140Kgf/cm ² at 23°C for 24 hours	D621	%	~
Charpy impact strength at 23°C	D256	J/M	~
		ftlbs/inch	~
Charpy impact strength at -40°C	D256	J/M	7
		ftlbs/inch	~
Modulus of elasticity	D638	MPa	3900
		psi	1406866
Compressive strength	D695	MPa	118
		psi	17114
Compressive yield strength	D695	MPa	~
		psi	~
Linear thermal expansion coefficient 30-100°C	E831	mm/mm/°C	0.47 x 10 ⁻⁴
Melt point	D3418	°C	343
Heat distortion temperature °C	D648	264 psi	~
		66 psi	~
Service temperature (short term)	D570	°C	300
Service temperature (long term)	D570	°C	260
Dielectric strength	D149	Kv/mm	20
Specific gravity	D792	g/cm ³	1.49
Water absorption 24 hrs	D570	%	0.2
Water absorption saturation	D570	%	0.5
Flammability	UL 94	Burn rate	VO

1. The test figures stated are typical values and their aim is to assist the specifier in material selection. They are not intended to represent exact specifications.
2. ~denotes no data available at the time of publication. Please contact Devol for further information.
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