



HIGH PERFORMANCE PEEK™ POLYMERS

Provisional Product Datasheet Development Grade

PEEK™ 450FE20

Property	Test Method	Test condition	Units	450FE20
Tensile Modulus	ISO 527	23°C	GPa	2.8
Tensile Strength	ISO 527	23°C	MPa	78
Tensile Elongation	ISO 527	23°C	%	20
Notched Izod Impact Strength	ISO 180	23°C	kJ/m ²	7.0
Flexural Modulus	ISO 178	23°C	GPa	3.2
Flexural Strength	ISO 178	23°C	MPa	120
Melt Flow Index, 400°C	ISO 1133	10kg	g/10min	25
Melt Viscosity 400°C, 0.5mm die	Victrex	10,000s ⁻¹	Pa.s	90
		1,000s ⁻¹		360
		100s ⁻¹		1200
Melt Viscosity	TM-VX-12		kNs/m ²	0.45
Specific Gravity	ISO 1183	23°C		1.40
Linear Mould Shrinkage ^(note 1) Mould temperature 170°C	Victrex	With flow	%	1.6
		Across flow	%	2.1

1) Linear Mould Shrinkage: measured on 150mm x 150mm square plaque, 3mm thick section; mould temperature 170°C (refer to *VICTREX PEEK Processing Guide*).

Shrinkage will vary with part geometry, gating, thickness and injection moulding conditions. These numbers should only be used as a guideline.

Nominal Granule Dimensions and Appearance

- (a) Dimensions, length 2.0 – 4.0mm, diameter 2.0 – 3.5mm
- (b) Granules of uniform cut and colour

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