

VICTREX® ST™ P45

➤ Product Description:

High performance thermoplastic material, unreinforced PolyEtherKetoneEtherKetoneKetone (PEKEKK), semi crystalline, coarse powder for extrusion compounding, low flow, colour natural.

➤ Material Properties

	CONDITIONS	TEST METHOD	UNITS	TYPICAL VALUE
Mechanical Data				
Tensile Strength	Yield, 23°C	ISO 527	MPa	110 *
Tensile Elongation	Break, 23°C	ISO 527	%	10 *
Tensile Modulus	23°C	ISO 527	GPa	4.2 *
Flexural Strength	23°C	ISO 178	MPa	170 *
Flexural Modulus	23°C	ISO 178	GPa	4.0 *
Izod Impact Strength	Notched, 23°C	ISO 180/A	kJ m ⁻²	5.0 *
	Unnotched, 23°C	ISO 180/U		n/b *

* Mechanical properties are reported on specimens injection moulded from polymer granules of similar melt viscosity

Thermal Data				
Glass Transition (T _g)	Onset	ISO 11357	°C	162
	Midpoint			169

Flow				
Melt Viscosity	420°C	ISO 11443	Pa.s	225

Miscellaneous				
Density	Crystalline	ISO 1183	g cm ⁻³	1.30

Typical Processing Conditions				
Drying Temperature / Time	180°C / 3h or 150°C / 6h (residual moisture <0.02%)			
Processing Temperature	410-420°C			

Important notes:

- 1) Processing conditions quoted in our datasheets are typical of those used in our processing laboratories
- 2) Data are generated in accordance with prevailing national, international and internal standards, and should be used for material comparison. Actual property values are highly dependent on part geometry, mould configuration and processing conditions. Properties may also differ for along flow and across flow directions

Detailed data available on our website www.victrex.com or upon request

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