



# VICTREX LMPAEK™ POLYMER 103 GRA

## General Information

### Product Description

High performance thermoplastic Victrex LMPAEK™ polymer, a PEEK (PolyEtherEtherKetone) based copolymer in the PAEK (PolyArylEtherKetone) semi crystalline family. The granules may be used for additive manufacturing, melt extrusion processes or process development such as injection or compression moulding. Natural/ beige in colour.

## Material Properties

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>1</sup>	1.27	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup> (23°C)	3800	MPa	ISO 527
Tensile Stress (Yield, 23°C)	91.0	MPa	ISO 527
Tensile Strain <sup>3</sup> (Break, 23°C)	62	%	ISO 527
Flexural Modulus (23°C)	3200	MPa	ISO 178
Flexural Stress			ISO 178
3.5% Strain, 23°C	106	MPa	
Yield, 23°C	146	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	7.6	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>4</sup> (Midpoint)	156	°C	ISO 11357
Melting Temperature <sup>4</sup>	303	°C	ISO 11357
Fill Analysis	Nominal Value	Unit	Test Method
Shear Viscosity (400°C)	277	Pa·s	ISO 11443

## Notes

<sup>1</sup> Crystalline

<sup>2</sup> Youngs

<sup>3</sup> Tensile strain results are dependent on the moulding conditions and may demonstrate variation. Different processing methods may yield to different values.

<sup>4</sup> 2nd Cycle

**Revision Date: October 2024**

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