



VICTREX LMPAEK™ POLYMER 101 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 ¹ | 1.25 | g/cm ³ | ISO 1183 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ² (23°C) | 3700 | MPa | ISO 527 |
| Tensile Stress (Yield, 23°C) | 91.0 | MPa | ISO 527 |
| Tensile Strain ³ (Break, 23°C) | 8.2 | % | ISO 527 |
| Flexural Modulus (23°C) | 3400 | MPa | ISO 178 |
| Flexural Stress | | | ISO 178 |
| 3.5% Strain, 23°C | 110 | MPa | |
| Yield, 23°C | 152 | MPa | |
| Thermal | Nominal Value | Unit | Test Method |
| Glass Transition Temperature ⁴ (Midpoint) | 153 | °C | ISO 11357 |
| Melting Temperature ⁴ | 305 | °C | ISO 11357 |
| Fill Analysis | Nominal Value | Unit | Test Method |
| Shear Viscosity (400°C) | 141 | Pa·s | ISO 11443 |

Notes

¹ Crystalline

² Youngs

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

⁴ 2nd Cycle

Revision Date: October 2024

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