Product Information

VESTAKEEP® 2500 G High Purity

MEDIUM VISCOSITY, UNREINFORCED POLYETHER ETHER KETONE



VESTAKEEP® 2500 G High Purity is a medium viscosity, unreinforced polyether ether ketone for injection molding and extrusion. The product is refined by Evonik's special filtration technology.

The semi-crystalline polymer features superior, thermal and chemical resistance. Parts made from VESTAKEEP® 2500G High Purity are of low flammability.

VESTAKEEP® 2500 G High Purity can be processed by common machines for thermoplastics.

We recommend a melt temperature between 360°C and 380°C during the injection molding process. The mold temperature should be within a range of 160°C to 200°C, preferably 180°C.

VESTAKEEP® 2500 G High Purity is supplied as granules in 25 kg boxes with moisture-proof polyethylene liners.

Pigmentation may affect values.

For information about processing VESTAKEEP® 2500 G High Purity, please follow the general recommendations in our brochure "VESTAKEEP® PEEK Processing Guidelines".

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation. Therefore they must not be used to establish specifications.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM
OR VISIT OUR PRODUCT AT WWW.INDUSTRIAL.VESTAKEEP.COM

Mechanical properties ISO	dry	Unit	Test Standard
Tensile Modulus	**3600**	MPa	ISO 527
Yield stress	**95**	MPa	ISO 527
Yield strain	**5.2**	%	ISO 527
Stress at break	**70**	MPa	ISO 527
Nominal strain at break, εtB	**40**	%	ISO 527
Charpy impact strength, +23°C	**N**	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, +23°C	**5.5**	kJ/m^2	ISO 179/1eA
Type of failure	**C**	-	-

EVONIK Leading Beyond Chemistry

Thermal properties	dry	Unit	Test Standard
Melting temperature	**341**	°C	ISO 11357-1/-3

Physical properties	dry	Unit	Test Standard
Water absorption	**0.02**	%	Sim. to ISO 62
Density	**1300**	kg/m³	ISO 1183

Rheological properties	dry	Unit	Test Standard
Melt volume-flow rate, MVR	**35**	cm³/10min	ISO 1133
Temperature	**380**	°C	-
Load	**5**	kg	-

Characteristics

Key Feature, Industrial Sector
Automotive, Aircraft and Aerospace, Electrical and Electronical, Instustry and Building Construction

Key Feature, Processing
Injection Molding

Key Feature, Resistance to
Heat (Thermal Stability)

Special Characteristics
Semi-crystalline, Medium viscosity

Features
General Chemical Resistance

Color
Natural Color

Delivery form
Pellets, Granules

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