

KEPSTAN® 8001

KEPSTAN® PEKK resin is a high performance thermoplastic material, based on PolyEtherKetoneKetone (PEKK) highly stable chemical backbone. Its semi crystalline structure in solid state offers an outstanding combination of mechanical and thermal strength together with chemical and fire resistance.

The 8000 Series offers the highest glass transition temperature and the highest degree of crystallinity, leading to the best tensile and compression strengths among the wide range of PEKK copolymers within the KEPSTAN® product range.

KEPSTAN® 8000 Series includes a low flow grade, KEPSTAN® 8001, and a medium flow grade, KEPSTAN® 8002, both unfilled pure PEKK resins designed to meet the requirements of a broad range of melt processing technologies, including among others extrusion of stock shapes, tubes, films, extrusion compression, compression molding, injection molding of thick or complex and thin-walled parts.

KEPSTAN® PEKK resin is available in pellet form and in powder form with different particle sizes. Standard packaging includes 20 kg boxes for pellets and 10 kg boxes for powders.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	18	cm ³ /10min	ISO 1133
Temperature	380	°C	-
Load	5	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	3800	MPa	ISO 527-1/-2
Charpy Impact Strength, +23°C	No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	50	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	5	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	5	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Temp. of Deflection Under Load, 1.80 MPa	175	°C	ISO 75-1/-2
Oxygen Index	35	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 1MHz	2.6	-	IEC 60250
OTHER PROPERTIES			
Density	1290	kg/m ³	ISO 1183

Drying temperature and time: 150°C for 3 to 4 hours or 120°C for 6 to 8 hours

Processing temperature: 375 – 385°C

Temperature settings - Injection: Rear 350°C / Center 375°C / Front 375°C / Nozzle 385°C

Mold temperature (to facilitate filling of the cavity and polymer crystallization): 220 - 240°C

Temperature settings - Extrusion: Zones 1/2/3/4: 340°C/ 360°C/ 380°C/ 380°C Die: 370°C

PROCESSING

Injection Molding, Profile Extrusion, Sheet Extrusion, Blow Molding, Calendering, Thermoforming

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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KEPSTAN®
BY ARKEMA

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DELIVERY FORM

Pellets, Powder

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