KEBAPEAK PEEK XS2800

PEEK — Barlog plastics GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.0**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.3**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3500**	MPa	ISO 527
Stress at break	**100**	MPa	ISO 527
Strain at break	**40**	%	ISO 527
Charpy impact strength, +23°C	**100**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6**	kJ/m²	ISO 179/1eA
Shore D hardness	**85**	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**343**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**152**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**45**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1E14**	Ohm*m	IEC 62631-3-1
Electric strength	**23**	kV/mm	IEC 60243-1
Comparative tracking index	**150**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**0.3**	%	Sim. to ISO 62
Humidity absorption	**0.07**	%	Sim. to ISO 62
Density	**1300**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150 - 160**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**365 - 400**	°C	-
Mold temperature	**170 - 200**	°C	-
Feed temperature	**360**	°C	-
Zone 1	**360 - 390**	°C	-
Nozzle temperature	**360 - 380**	°C	-

Characteristics

Processing
Injection Molding, Wire/Cable Extrusion, Other Extrusion

Special Characteristics
Heat stabilized or stable to heat

Features
Tribologic Grade

Chemical Resistance
General Chemical Resistance

Applications
Aircraft and Aerospace, Automotive, Electrical and Electronical, Encapsulation, Medical

Regional Availability
Europe