

# Ketex Polyetheretherketone (PEEK)



Grade: PKR-20  
Colour: Natural

Recycled grade  
High viscosity

Properties	Standards	Test conditions	Units	Typical values
<b>Mechanical Properties</b>				
Charpy impact strength	ISO 179	4.0t Notched 23°C	KJ/m <sup>2</sup>	5
		4.0t Unnotched 23°C		No break
Tensile strength at break	ISO 527	4.0t 23°C	MPa	95
Tensile elongation at break		4.0t 23°C	%	17
Flexural strength	ISO 178	4.0t 23°C	MPa	150
		4.0t 125°C	MPa	88
		4.0t 175°C	MPa	19
		4.0t 275°C	MPa	11
Flexural modulus	ISO178	4.0t 23°C	MPa	4200
<b>Thermal Properties</b>				
Flammability	UL-94	1.5mm	---	V-0 (equivalent)
Melt flow rate	ISO 1133-1	400°C 2.16kgf	g/10min	5
Heat deflection temperature	ISO 75	1.82MPa	°C	152
			°F	306
<b>Electrical Properties</b>				
Electric strength	IEC 60243-1	t=2.5mm	kV/mm	16
Dielectrical constant	IEC 60250	23°C 1 KHz	---	2.9
Dissipation factor	IEC 60250	23°C 1 MHz	---	0.005
Volume resistivity	IEC 60093	23°C	Ω·cm	10 <sup>16</sup>
<b>Other Properties</b>				
Specific gravity	ISO 1183	---	---	1.30
Mould shrinkage	ISO 294	MD	%	1.0
		TD	%	1.3

To our best knowledge, the values contained herein are given in good faith. However, they may be affected by colorants, other additives, the design of a mould/die, moulding techniques applied, and the size and shape of a moulded article. In view of these factors, the properties do not relieve customers from carrying out their own investigations and tests. It is entirely the customer's responsibility to determine the suitability of material and grade used for their intended application. No warranty, express or implied is made nor is liability accepted in connection with any of the information provided. We reserve the right to make additions, deletions, or modifications to the information at any time without prior notification.

Kotec Corporation (18.2.2023)