

# Product Data Sheet

## Ketron® PEEK 30% GR



Extruded 30% Glass fiber reinforced polyetheretherketone. The addition of glass fibers significantly reduces the expansion rate and increases the flexural modulus of PEEK. This grade is ideal for structural applications that require improved strength, stiffness or stability, especially at temperatures above 300°F.

Property	Method	Unit	Value
<b>Mechanical</b>			
Specific Gravity, 73°F	D792		1.51
Tensile Strength, 73°F	D638	psi	15,000
Tensile Modulus of Elasticity, 73°F	D638	psi	900,000
Elongation, 73°F	D638	%	3.0
Flexural Strength, 73°F	D790	psi	28,000
Flexural Modulus, 73°F	D790	psi	1,000,000
Shear Strength, 73°F	D732	psi	14,000
Compressive Strength, 10% Def., 73°F	D695	psi	26,000
Compressive Modulus of Elasticity, 73°F	D695	psi	1,000,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M103 (R126)
Hardness, Durometer, Shore D scale, 73°F	D2240		D86
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	1.4
<b>Thermal</b>			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	1.20 x 10 <sup>-5</sup>
Deflection Temperature 264 psi	D648	°F	450
Melting Point (crystalline) peak	D3418	°F	644
Continuous Service Temperature in Air (Max.)		°F	480
Thermal Conductivity		BTU-in/(hr-ft <sup>2</sup> °F)	2.98
<b>Electrical</b>			
Dielectric Strength, Short Term	D149(2)	Volts/mil	500
Surface Resistivity	EOS/ESD S11.11	Ohm/square	>10 <sup>13</sup>

**For additional information about our products call 1-800-366-0300 or via e-mail at [select.support@qplas.com](mailto:select.support@qplas.com)**

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Property	Method	Unit	Value
<b>Chemical</b>			
Acids, Weak, 73°F/23°C, acetic acid, dilute hydrochloric or sulfuric			Acceptable Service
Acids, Strong, 73°F/23°C, conc. hydrochloric or sulfuric			Limited Service
Alkalies, Weak, 73°F/23°C, dilute ammonia or sodium hydroxide			Acceptable Service
Alkalies, Strong, 73°F/23°C, conc. ammonia or sodium hydroxide			Acceptable Service
Hydrocarbons-Aromatic, 73°F/23°C, benzene, toluene			Acceptable Service
Hydrocarbons-Aliphatic, 73°F/23°C, gasoline, hexane, grease			Acceptable Service
Ketones, Esters, 73°F/23°C, acetone, methyl ethyl ketone			Acceptable Service
Ethers, 73°F/23°C, diethyl ether, tetrahydrofuran			Acceptable Service
Chlorinated Solvents, 73°F/23°C, methylene chloride, chloroform			Acceptable Service
Alcohols, 73°F/23°C, methanol, ethanol, anti-freeze			Acceptable Service
Inorganic Salt Solutions, 73°F/23°C, sodium chloride, potassium cyanate			Acceptable Service
Continuous Sunlight, 73°F/23°C			Limited Service
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 hr	D570	%	0.10
Water Absorption Immersion, Sat.	D570	%	0.30
Outgassing TML (Total Mass Loss)	E595	%	0.30
CVCM (Collected Volatile Condensable Material)	E595	%	0.00
WVR(Water Vapor Regained)	E595	%	0.00
<b>Compliance</b>			
UL94			V-0

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