

Technical Data Sheet **Peek**

	Peek	Peek mod	Peek-30 GF	Test method	Unit
I. Physical Properties					
1. Specific gravity	1.31	1.48	1.51	ASTM D792	g/cm ³
2. Water saturation	0.4	0.3	0.5	ASTM D570	%
3. Water equilibrium (50% RH)	0.07	0.04	0.11	ASTM D570	%
4. Maximum permissible service temp.	500	500	500	UL 746B	°F
5. Lower permissible service temp.	-40	-	-	UL 746B	°F
II. Mechanical Properties					
1. Tensile strength at yield	14.500	17.300	22.800	ASTM D638	psi
2. Elongation at yield.	-	-	-	ASTM D638	%
3. Tensile strength at break	26.800	-	26.500	ASTM D638	psi
4. Elongation at break	45	2.5	2.2	ASTM D638	%
5. Impact strength	n.b.	-	9.5	ASTM D256	ft-lb/in
6. Notch impact strength	2.1	3.2	2.4	ASTM D256	ft-lb/in
7. Ball indentation / Rockwell hardness	-	-	-	ASTMD785	psi
8. Shore-D	-	85	90	ASTMD2240	-
9. Flexural strength	23.900	30.000	33.800	ASTM D638	psi
10. Modulus of elasticity	537.000	-	1.406.000	ASTM D638	psi
II. Thermal Properties					
1. Vicat-softening point VST/B/50	-	-	-	ASTMD1525	°F
VST/A/50	-	-	-	ASTMD1525	°F
2. Heat deflection temperature HDT/B	-	-	-	ASTM D648	°F
HDT/A	306	622	622	ASTM D648	°F
3. Coefficient of linear thermal expansion	4.7	3.1	1.2	ASTM D696	in/in/°F×10 ⁻⁵
4. Thermal conductivity at 20°C	2.0	-	3.0	ASTM C177	BTU/hr-ft×°F
5. Glass transition temperature	289	295	296	ASTMD3418	°F
6. Melting temperature	649	646	646	ASTMD3418	°F

+98-2166698027
+98-2166698089

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info@bazargani-falahati.com

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IV. Electrical Properties					
1. Volume resistivity	10 ¹³	10 ¹⁰	10 ¹³	ASTMD257	Ω×cm
2. Surface resistivity	10 ¹³	10 ⁵	10 ¹³	-	Ω/SQ
3. Dielectric constant at 1MHz	3.2	-	-	ASTM D150	-
4. Dielectric loss factor at 1 MHz	0.0040	-	-	-	-
5. Dielectric strength	580	-	175	ASTM D149	V/mil
6. Tracking resistance	150	-	-	IEC 60112	Grade
V. Additional Data					
1. Bond ability	Yes	limited	Yes	-	-
2. Physiological indifference	Yes/ No	Yes/ No	No/no	FDA/ NSF	-
3. Flammability	V-0	V-0	V-0	UL 94	-
4. UV stabilization	limited	yes	limited	-	-

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