



A1050 PEKK

Branched (Amorphous), Standard Flow, Unfilled PEKK

General	ASTM #	US Value	SI Unit
Form	---	Pellets (Amber)	Pellets (Amber)
Composition (Polyetherketoneketone)	---	Neat Resin	Neat Resin
Specific Gravity	D792	1.28	1.28 g/ml
Crystallinity, %	---	0	0 %
Linear Mold Shrinkage, in/in		0.005	0.005 cm/cm
Moisture Absorption@24., %	D570	<0.2	<0.2 %
Melt Index (8.4kg @360 °C), g/10 min.	---	40	40 g/10 min
Mechanical			
Tensile Strength (Break), Kpsi	D638	13	90 MPa
Tensile Modulus, Mpsi	D638	0.5	3.4 GPa
Elongation (Break), %	D790	80 %	80 %
Flexural Strength (Yield) Kpsi	D790	20	138 MPa
Flexural Modulus Mpsi	D790	0.5	3.4 Gpa
Izod, Notched ft-lb/in @1/8"	D256	0.9	0.5 J/cm
Impact Strength, in-lb	Gardner	<320	<320 %
Compressive Strength, Kpsi	D695	15	103Mpa
Hardness, Rockwell M	D2240	86	86
Thermal			
Melting Point, °F	DSC	583	306 °C
Tg (Glass Transition), °F	DSC	311	155 °C
Flammability Rating (UL 94)	UL 94	V-0	V-0
HDT @264psi, °F	D648	286	171 °C
Thermal Conductivity, BTU-In/hr- ft ² - °F	D648	286	141 °C
CTE, linear μ in/in- °F	UL-764	482	250 °C
Limited Oxygen Index, % O ₂	D2863	40	40 % O ₂
NBS Smoke Density	E662-79	<10	<10
Electrical			
Dielectrical Strength, V/mil	D149	600	600 V/mil
Dielectrical Constant @ 1 KHz	D150	3.3	3.3
Dissipation Factor @ 1 KHz	D150	0.004	0.004



Polymics, Ltd.

High Performance Polymers & Compounds

2215 High Tech Road • State College • PA 16803 • USA

TEL: 1 (814) 357-5860 • FAX: 1 (814) 357-5863

Volume Resistivity Ohm-cm $\times 10^{16}$	D257	1	1
Surface Resistivity, Ohm/sq $\times 10^{16}$	D257	2	2
Other			
Kinetic Coefficients of Friction	D1894	0.186	0.186
Static Coefficients of Friction	D1894	0.285	0.285
Poissons Ratio	---	0.45	0.45

This information and all further technical advice are based Polymics' present knowledge and experience. However, neither Polymics Ltd nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The use of this product resides on the determination of the customer not Polymics Ltd. The customer must determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes. Polymics reserves the right to make additions, deletions, or modifications to the information at any time without prior notification

Polymics • 2215 High Tech Rd. • State College • PA 16803 USA • TEL: (814) 357-5860

1006 Guangfu Rd. • Bade City • Taoyuan 33455 Taiwan • TEL: 886 (3) 339-8000