

Pyramid™ PEKK Plus® KK827H-BK

Polyaryletherketone

Polymics, Ltd.

Message:

Polyaryletherketone, Standard Flow, Unfilled

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	4100	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.318 mm)	4.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	191	°C	ASTM D648
Glass Transition Temperature	177	°C	ASTM E1356
Melting Temperature	360	°C	DSC
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.1	ohms	ASTM D257
Volume Resistivity	2.5	ohms · cm	ASTM D257
Dielectric Strength	240	kV/mm	ASTM D149
Dielectric Constant	3.30		ASTM D150
Dissipation Factor	4.0E-3		ASTM D150

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