

Arylmax® K7522CF30

Polyaryletherketone

Polymics, Ltd.

Message:

Polyaryletherketone, Easy Flow, 30% carbon filled

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	28000	MPa	ASTM D638
Tensile Strength	248	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638
Flexural Modulus	24000	MPa	ASTM D790
Flexural Strength	368	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	5.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	321	°C	ASTM D648
Glass Transition Temperature	171	°C	ASTM D3418
Melting Temperature	352	°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	50	ohms	ASTM D257
Volume Resistivity	50	ohms · cm	ASTM D257

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