

# Celazole® (T Series) TU-60

Polybenzimidazole  
PBI Performance Products, Inc.

Message:

Celazole TU-60 is a high performance unfilled blend, ideal for applications requiring no fillers. This material works well for complex geometries and offers the best process ability. Ideal for lamp sockets, connectors and back up seals.

General Information	
Features	Workability, good
	Good chemical resistance
	Heat resistance, high
Uses	Connector
	Seals
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm <sup>3</sup>	
Water Absorption (Equilibrium)	6.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (A-Scale)	25		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5030	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	5000	MPa	ASTM D790
Flexural Strength	175	MPa	ASTM D790
Compressive Modulus	2960	MPa	ASTM D695
Compressive Strength	207	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow			TMA
24 to 149°C	3.4E-5	cm/cm/°C	TMA
199 to 299°C	7.0E-5	cm/cm/°C	TMA
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150

1 kHz	3.40		ASTM D150
10 kHz	3.40		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	0.0		ASTM D150
10 kHz	1.0E-3		ASTM D150
Arc Resistance	135	sec	ASTM D495
Additional Information	Nominal Value	Unit	Test Method
Temperature of Initial Weight Loss			Internal method
Air	499	°C	Internal method
Nitrogen	499	°C	Internal method

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Recommended distributors for this material

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