

Duratron® T5030

Polyamide-imide

Quadrant Engineering Plastic Products

Message:

Duratron® T5030 is a Polyamide-imide (PAI) product filled with 30% glass fiber. It can be processed by extrusion and is available in North America.

Characteristics include:

Flame Rated

Chemical Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Acid Resistant		
	Alcohol Resistant		
	Hydrocarbon Resistant		
	Salt Water/Spray Resistant		
	Solvent Resistant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.30	%	
Saturation	1.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength (Ultimate)	159	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6760	MPa	ASTM D790
Flexural Strength (Yield)	207	MPa	ASTM D790
Compressive Modulus	4830	MPa	ASTM D695
Compressive Strength (10% Strain)	276	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Maximum Use Temperature - Long Term, Air	260	°C	
Glass Transition Temperature	275	°C	ASTM D3418
CLTE - Flow ¹ (-40 to 149°C)	1.6E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.36	W/m/K	ASTM F433

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ²	28	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	V-0		UL 94
NOTE			
1.	68°F		
2.	Method A (Short-Time)		

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