

Ketron® PEEK-HPV

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® PEEK-HPV is a Polyetheretherketone (PEEK) product. It is available in Europe. Typical application: Engineering/Industrial Parts.

Characteristics include:

Flame Rated

Wear Resistant

General Information			
Features	Good Wear Resistance		
	Low Friction		
Uses	Bearings		
	Bushings		
Appearance	Black		
Forms	Disc		
	Preformed Parts		
	Rod		
	Tubing		

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.050	%	
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.14	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	0.11	%	
23°C, 3.00 mm ²	9.0	mg	
23°C, 3.00 mm ³	4.0	mg	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	85		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	215	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5900	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	5.0	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	67.0	MPa	

1% Strain	34.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	°C	ISO 75-2/A
Continuous Use Temperature			
-- 4	250	°C	
-- 5	310	°C	
Melting Temperature (DSC)	340	°C	
CLTE - Flow			
23 to 100°C	3.5E-5	cm/cm/°C	
23 to 150°C	4.0E-5	cm/cm/°C	
> 150°C	8.5E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.24	W/m/K	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	43	%	ISO 4589-2
NOTE			
1.	96 hrs		
2.	Weight, 96 hrs		
3.	Weight, 24 hrs		
4.	20000 hrs		
5.	Short periods		

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