

AKROTEK® PEEK TM black (5051)

Polyetheretherketone

AKRO-PLASTIC GmbH

Message:

AKROTEK® PEEK TM black (5051) is an unreinforced polyetheretherketone with good tribological properties
Applications are mainly elements in the automotive-, aeronautical-, industrial- and medical engineering that require low friction and wear values in a temperature environment above 150°C

General Information			
Features	Good Wear Resistance		
	Low Friction		
Uses	Aerospace Applications		
	Automotive Applications		
	Industrial Applications		
	Medical/Healthcare Applications		
Appearance	Black		
Resin ID (ISO 1043)	PEEK		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.46	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.2	%	ISO 527-2/5
Flexural Modulus ¹	6000	MPa	ISO 178
Flexural Stress ²	135	MPa	ISO 178
Flexural Strain at Break ³	4.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	145	°C	ISO 75-2/C
Melting Temperature ⁴	342	°C	DIN EN 11357-1
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	V-0		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		

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