AKROTEK® PEEK CF 30 9 black (5569)

PEEK-CF30 — Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.1 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**25000 / -**	MPa	ISO 527
Stress at break	**240 / -**	MPa	ISO 527
Strain at break	**1.4 / -**	%	ISO 527
Flexural modulus, 23°C	**24000 / -**	MPa	ISO 178
Flexural strength	**340 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**45 / -**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**45 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6 / -**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**5 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**342 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**280 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**215 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**5 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**40 / ***	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0 / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-

Other properties	dry / cond	Unit	Test Standard
Density	**1400 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**385**	°C	-
Mold temperature	**195**	°C	-
Injection pressure	**200**	MPa	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Features
Tribologic Grade

Applications
Aircraft and Aerospace, Automotive, Medical

Regional Availability
Europe, Asia Pacific