

AKROTEK® PEEK 8 natural (4447)

PEEK

Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3700 / 3700	MPa	ISO 527
Yield stress	100 / 100	MPa	ISO 527
Flexural modulus, 23°C	3800 / -	MPa	ISO 178
Flexural strength	155 / -	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6 / 6	kJ/m ²	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	155 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	60 / *	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	1290 / -	kg/m ³	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

Natural Color

Features

Tribologic Grade

Applications

Aircraft and Aerospace, Automotive, Medical

Regional Availability

Europe, Asia Pacific