

Technical Data Sheet



ALTECH PA6 A 2040/507 GF40 BK1219-20LWA

Base Polymer	Polyamide 6
Filler/Additive System	40 % glass fibres
Special Features	heat stabilised, hot oil resistant, easy release (demoulding), easy flow, laser absorbing
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	engine and drive systems, housings

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h max. moisture content <0,15 %
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	10600 / 6400	MPa	ISO 178
Flexural Strength	220 / 140	MPa	ISO 178
Tensile Modulus	12200 / 7000	MPa	ISO 527
Tensile Strength at Break	150 / 85	MPa	ISO 527
Tensile Elongation at Break	2.1 / 5.3	%	ISO 527
Impact Strength (Charpy, 23°C)	55 / 60	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7.5 / 11	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	208 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1470 / -	kg/m³	ISO 1183