

FS3200PA Nylon Powder

For use with all selective laser sintering (SLS) systems

Technical Data Sheet-FS3200PA

Performance		Value	Unit	Method/Condition
General Properties				
Bulk density		0.45	g/cc	
Particle size distribution	D90	55	μ m	
	D50	45	μ m	
	D10	20	μ m	
Density of parts		0.95	g/cc	
Thermal Properties				
Melting point		183	°C	
Heat Deflection Temperature (HDT)	1.8Mpa	58.2	°C	GB/T 1634.2-2000
	0.45 Mpa	145.8	°C	
Mechanical Properties				
Tensile Strength		48.1	MPa	GB/T 1040.2-2006
Tensile Modulus		1646	MPa	GB/T 1040.2-2006
Elongation at Break		38	%	GB/T 1040.2-2006
Flexural Strength		43.5	MPa	GB/T 1040.2-2006
Flexural Modulus		1431	MPa	GB/T 1040.2-2006
Impact Strength (notched Izod)		3.6	KJ/m ²	GB/T 1843-2008
Impact Strength (unnotched Izod)		17.8	KJ/m ²	

FS3400GF plastic

For use with all selective laser sintering (SLS) systems

Technical Data Sheet-FS3400GF

Performance		Value	Unit	Method/Condition
General Properties				
Bulk density		0.67 g/cc	g/cc	
Particle size distribution	D90	50 μ m	μ m	
	D50	39 μ m	μ m	
	D10	16 μ m	μ m	
Density of parts		1.26 g/cc	g/cc	
Thermal Properties				
Melting point		184	$^{\circ}$ C	
Heat Deflection Temperature (HDT)	1.8Mpa	146.7	$^{\circ}$ C	GB/T 1634.2-2000
	0.45 Mpa	171.9	$^{\circ}$ C	
Mechanical Properties				
Tensile Strength		56.2	MPa	GB/T 1040.2-2006
Tensile Modulus		5649	Mpa	GB/T 1040.2-2006
Elongation at Break		6.5	%	GB/T 1040.2-2006
Flexural Strength		83.5	Mpa	GB/T 1040.2-2006
Flexural Modulus		5032	Mpa	GB/T 1040.2-2006
Impact Strength (notched Izod)		3.6	KJ/m ²	GB/T 1843-2008
Impact Strength (unnotched Izod)		10.7	KJ/m ²	