PLASTIC LASER SINTERING MATERIALS

FARSOON TECHNOLOGIES

General Properties

	FS3300PA	FS3400GF	FS6028PA	FS3400CF	FS3250MF
Bulk Density	0.48 g/cm^3	0.67 g/cm^3	520kg/m^3	0.51 g/cm^3	0.55 g/cm^3
Density of Parts	0.95 g/cm^3	1.26 g/cm^3	1140kg/m^3	1.08 - 1.10 g/cm^3	1.20 g/cm^3
Color	white	gray	pale yellow	black	light gray

Thermal Properties

	FS3300PA	FS3400GF	FS6028PA	FS3400CF	FS3250MF
Melting Point	183 °C	184 °C	222°C	184 °C	183 °C
Heat Deflection Temp(HDT) 1.8 MPa GB/T 1040.2-2006	83.5 °C	88 °C	99 °C	72 °C	129 °C
Heat Deflection Temp(HDT) 0.45 MPa GB/T 1040.2-2006	146.2 °C	162 °C	n/a	168 °C	171 °C

Mechanical Properties

	FS3300PA	FS3400GF	FS6028PA	FS3400CF	FS3250MF
Tensile Strength GB/T1040.2-2006	46 MPa	44 MPa	75 MPa	65-70 MPa	51 MPa
Tensile Modulus GB/T1040.2-2006	1602 MPa	3500 ~ 7800 MPa	3750 MPa	4700 - 6500 MPa	6130 MPa
Elongation at Break GB/T1040.2-2006	36 %	5 %	4.5 %	3.0 - 4.0 %	5 %
Flexural Strength GB/T1040.2-2006	46.3 MPa	68 MPa	110 MPa	94 - 113 MPa	76 MPa
Flexural Modulus GB/T1040.2-2006	1300 MPa	2415 MPa	3200 MPa	4500 - 5600 MPa	4633 MPa
Impact Strength (notched Izod) GB/T 1843-2008	4.9 KJ/m^2	4.13 KJ/m^2	3.0 KJ/m^2	4.3 KJ/m^2	5.59 KJ/m^2
Impact Strength (unnotched Izod) GB/T 1843-2008	13.2 KJ/m^2	19.28 KJ/m^2	9 KJ/m^2	16 KJ/m^2	20.78 KJ/m^2

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