PA 2200 Performance 1.0

PA12 EOS GmbH Electro Optical Systems

Product Texts

This data sheet applies to the products PA 2200 and PA 2200 CarbonReduced.

100 µm layer thickness
Performance is the parameter set of choice for parts with high demands on mechanical properties and fracture behaviour, especially when the part is going to be subjected to multiaxial loading in all three directions. Performance parts are characterized by the highest degree of isotropic strength and rigidity. The choice of 100 µm layer thickness results in fine resolution and also very high surface quality and detail resolution.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1700**	MPa	ISO 527
Tensile Strength	**50**	MPa	ISO 527
Strain at break	**20**	%	ISO 527
Flexural modulus, 23°C	**1500**	MPa	ISO 178
Charpy impact strength, +23°C	**53**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**4.8**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**4.4**	kJ/m²	ISO 180/1A
Shore D hardness	**75**	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**176**	°C	ISO 11357-1/-3
Vicat softening temperature, B	**163**	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	**930**	kg/m³	ISO 1183

Characteristics

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa