

Product Texts

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

60 µm layer thickness

The parameter set TopQuality is used for very small to medium-sized parts with extremely fine, fragile geometries and geometric elements and the strictest requirements in surface quality are best served by this parameter set. It applies a layer thickness of 60 µm, which is approximately the thickness of a grain of the plastic powder normally used today. The typical stair-step effect on upward and downward-pointing geometry elements can practically no longer be seen on TopQuality parts. The mechanical attributes of TopQuality parts are satisfyingly close to the levels of Performance parts.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1800	MPa	ISO 527
Tensile Strength	52	MPa	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus, 23°C	1500	MPa	ISO 178
Charpy impact strength, +23°C	53	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4.8	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	4.4	kJ/m ²	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/m ³	ISO 1183

Characteristics**Regional Availability**

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