

## STAR PA6 GP

General	
Availability	Global
Processing Method	Injection Molding
Description	Unfilled Nylon 6

Physical	Nominal Value	Test Method
Density/Specific Gravity	1.13 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage		ISO 294-4
	Across Flow: 23 C	1.80%
	Flow: 23 C	1.50%
Water Absorption		ISO 62
	24 hr, 23 C	3%
	Saturation, 23 C	9%

Mechanical	Nominal Value	Test Method
Tensile Modulus (23 C)	3350 MPa	ISO 527-2
Tensile Stress (Yield, 23 C)	85 MPa	ISO 527-2
Tensile Strain (Break, 23 C)	7%	ISO 527-2

Impact	Nominal Value	Test Method
Charpy Notched Impact Strength (23 C)	4 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23 C)	No Break	ISO 179/1eU

Thermal	Nominal Value	Test Method
Heat Deflection Temperature		
	.45 MPa, Unannealed	160 C
	1.8 MPa, Unannealed	65 C
Continuous Use Temperature	85 C	IEC 60216 IEC 60695-10-2
Ball Pressure Test		
	125 C	Pass
	165 C	Pass

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

<b>Electrical</b>	<b>Nominal Value</b>	<b>Test Method</b>
Surface Resistivity	1.0E+14 ohms	IEC 60093
	1.0E+15 ohms	
Volume Resistivity	cm	IEC 60093
Comparative Tracking Index		IEC 60112
3.2 mm, Solution A	600 V	

<b>Flammability</b>		
Flame Rating	V-2	UL 94

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