Staramide AST44

PA66 — Eurostar Engineering Plastics

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1900**	MPa	ISO 527
Yield stress	**50**	MPa	ISO 527
Yield strain	**4.6**	%	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**1900**	MPa	ISO 178
Charpy impact strength, +23°C	**100**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**100**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**80**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**65**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**80**	kJ/m²	ISO 180/1A
Izod notched impact strength	**55**	kJ/m²	ISO 180/1A
Temperature	**-40**	°C	-
Rockwell hardness	**R 112**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**72**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**220**	°C	ISO 75-1/-2
Vicat softening temperature, B	**192**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**100**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**120**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Thickness tested	**0.75**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**2.7**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**150**	E-4	IEC 62631-2-1
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
Electric strength	**16**	kV/mm	IEC 60243-1
Comparative tracking index	**550**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**5.5**	%	Sim. to ISO 62
Humidity absorption	**1.5**	%	Sim. to ISO 62
Density	**1070**	kg/m³	ISO 1183

Characteristics

Processing
Injection Molding, Other Extrusion

Features
Low Odor

Delivery form
Pellets

Regional Availability
Europe

Special Characteristics
High impact or impact modified