ISONYL® A6 GF30 HSR

PA6-GF30 Sirmax S.p.A.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**9500**	MPa	ISO 527
Stress at break	**150**	MPa	ISO 527
Strain at break	**3.5**	%	ISO 527
Flexural modulus, 23°C	**8000**	MPa	ISO 178
Flexural strength	**240**	MPa	ISO 178
Charpy impact strength, +23°C	**70**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**12**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**12**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**210**	°C	ISO 75-1/-2
Vicat softening temperature, B	**210**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-

Other properties	Value	Unit	Test Standard
Density	**1360**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 100**	°C	-
Pre-drying - Time	**3**	h	-
Melt temperature	**230 - 260**	°C	-
Mold temperature	**60 - 80**	°C	-

Characteristics

Processing
Injection Molding

Special Characteristics
High impact or impact modified, Heat stabilized or stable to heat

Chemical Resistance
Hydrolytically Stable

Certifications
RoHS compliant

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific, South and Central America