



Document	ISO Datasheet
Description	PA 6
Grade	ISONYL 6 GF30 V0 HF
Code	
Application	Handles, electric cards, connectors, seat parts, door opening system, ventilator

PA6 30% glass fiber, flame retardant UL94 V0 1,5mm, halogen free.

Properties	Method	Unit	Value
<b>Physical</b>			
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	1,41
Mould Shrinkage (%)	INTERNAL	%	0,1-0,3
<b>Thermal</b>			
Vicat B50	ISO 306	°C	205
HDT, A (1.80 MPa)	ISO 75/Af	°C	195
<b>Mechanical at 23 °C</b>			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	9000
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	200
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	10000
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	150
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	3
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m <sup>2</sup>	6
Charpy unnotched impact strength (23°C) ISO	ISO 179/1eA	KJ/m <sup>2</sup>	6
Charpy unnotched impact strength (23°C) ISO	ISO 179/1eU	KJ/m <sup>2</sup>	30
<b>Flammability</b>			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	960
Glow Wire Flammability Index GWFI (3,0 mm)	IEC 60695-2-12	°C	960
Glow Wire Ignition Temperature GWIT (1,0 mm)	IEC 60695-2-13	°C	775
Glow Wire Ignition Temperature GWIT (2,0 mm)	IEC 60695-2-13	°C	775
Flammability class (1,5 mm)	UL94		V0
Flammability class (3,0 mm)	UL94		V0
<b>Processing Conditions</b>			
Melt Temperature Range	ISO 294	°C	240-260
Mold Temperature Range	ISO 294	°C	70-90

Injection Velocity	ISO 294	MEDIUM
Drying Temperature		°C 80-100
Drying Time		Hour 3
Regulations compliance		
RoHS compliance status	COMPLIANT	
EN71		
UL listed file n°	QMFZ2.E220931	
Water contact approvals		
Food contact status		

<sup>§</sup> Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 3.0 x 12.7 x 127 mm sample.

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