WIC PA6 12 GF 18 N

PA6-(GF+CF)30 WIPAG

Product Texts	
Base Polymer	Polyamide 6
Filler	12% carbon fiber + 18% glass fiber
Colour	natural (carbon optic)
Special Features	medium viscosity, heat ageing stabilisation, electrical conductive
Market Segment	Automotive, Industries

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**50 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**5 / ***	kg	-
Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**15000 / 8000**	MPa	ISO 527
Tensile Strength	**160 / 95**	MPa	ISO 527
Strain at break	**1.5 / 4**	%	ISO 527
Flexural modulus, 23°C	**14000 / 7300**	MPa	ISO 178
Flexural strength	**240 / 145**	MPa	ISO 178
Charpy impact strength, +23°C	**45 / 54**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7 / 12**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**209 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**221 / ***	°C	ISO 75-1/-2

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	**1000 / -**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1000**	Ohm	IEC 62631-3-2

Other properties	dry / cond	Unit	Test Standard
Water absorption	**4.7 / ***	%	Sim. to ISO 62
Humidity absorption	**0.5 / ***	%	Sim. to ISO 62
Density	**1350 / -**	kg/m³	ISO 1183
Global warming potential	**5.57**	kg CO eq./kg	ISO 14040, 14044

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 8**	h	-
Processing humidity	**≤0.12**	%	-
Melt temperature	**250 - 270**	°C	-
Mold temperature	**60 - 100**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Delivery form
Natural Color

Regional Availability
Europe

Special Characteristics

Increased electrical conductivity, Heat stabilized or stable to heat