WIC PA66 40 N

PA66-CF40 WIPAG

Product Texts	
Base Polymer	Polyamide 66
Filler	40% carbon fiber
Colour	natural (carbon optic)
Special Features	medium viscosity
Market Segment	Automotive, Sport

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**7 / ***	cm³/10min	ISO 1133
Temperature	**300 / ***	°C	-
Load	**1.2 / ***	kg	-
Molding shrinkage, parallel	**0.1 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**30000 / 18000**	MPa	ISO 527
Tensile Strength	**225 / 160**	MPa	ISO 527
Strain at break	**1.2 / 2**	%	ISO 527
Flexural modulus, 23°C	**27000 / -**	MPa	ISO 178
Flexural strength	**340 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**50 / 60**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7 / 9**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**260 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**257 / ***	°C	ISO 75-1/-2

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	**0.1 / -**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 10**	Ohm	IEC 62631-3-2

Other properties	dry / cond	Unit	Test Standard
Density	**1330 / -**	kg/m³	ISO 1183
Global warming potential	**4.54**	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	**280 - 300**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive, Sports Equipment

Delivery form
Natural Color

Regional Availability
Europe