

# CELANYL® SXB3 UV ND5012 Piano Black

## CELANYL®

### Product information

Resin Identification	PA6	ISO 1043
Part Marking Code	>PA6<	ISO 11469

### Rheological properties

	dry/cond.		
Viscosity number	152/*	cm <sup>3</sup> /g	ISO 307, 1628
Moulding shrinkage, parallel	1.1/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.2/-	%	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	3250/1000	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	87/42	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4/24	%	ISO 527-1/-2
Flexural modulus	2950/850	MPa	ISO 178
Flexural strength	98/25	MPa	ISO 178
Charpy notched impact strength, 23°C	4.5/30	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	3.2/2.6	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	5/-	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -40°C	5.1/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.459/-		

### Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	220/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	64/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	172/*	°C	ISO 75-1/-2

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	3.5/*	%	Sim. to ISO 62
Water absorption, 2mm	9.6/*	%	Sim. to ISO 62
Density	1130/-	kg/m <sup>3</sup>	ISO 1183

### Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.15 %
Melt Temperature Optimum	260 °C
Min. melt temperature	235 °C
Max. melt temperature	270 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	50 °C
Max. mould temperature	100 °C
Ejection temperature	178 °C

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### Characteristics

Processing	Injection Moulding
Special characteristics	U.V. stabilised or stable to weather, Specialty appearance

### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
General Motors	Natural; Part Specific Approval, Please Contact Your CE Representative For More Details.	
Stellantis - Chrysler	MS.50017 / CPN-5341	Black;ASTM D6779 PA0210B44010