

CELANYL® SXB3 UV ND5012 Piano Black

Product information

Part Marking Code	PA6	ISO 11469
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Rheological properties

Viscosity number	152 cm ³ /g	ISO 307, 1157, 1628
Moulding shrinkage range, parallel	1.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.2 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile Modulus	3250 / 1000	MPa	ISO 527-1/-2
Yield stress, 50mm/min	87 / 42	MPa	ISO 527-1/-2
Yield strain, 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 ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.2 / 2.6	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	5 / -	kJ/m ²	ISO 180/1A
Izod notched impact strength, -40°C	5.1	kJ/m ²	ISO 180/1A
Poisson's ratio	0.459		

Thermal properties

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

Other properties

Humidity absorption, 2mm	3.5 %	Sim. to ISO 62
Water absorption, 2mm	9.6 %	Sim. to ISO 62
Density	1130 kg/m ³	ISO 1183

Injection

Melt Temperature Optimum	263 °C	Internal
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Additional information

Injection molding	Typical Profile
	Melt Temperature 240-266 degC (464-511 degF)
	Mold Temperature 65-110 degC (149-230 degF)
	Fill Rate
	Medium fill rates are recommended.



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Processing Texts

Injection molding

Typical Profile

Melt Temperature 240-266 degC (464-511 degF)

Mold Temperature 65-110 degC (149-230 degF)

Fill Rate

Medium fill rates are recommended.

Injection molding Preprocessing

Product needs to be dried before processing. A dehumidifying or desiccant dryer operating at 80 degC (176 degF) is recommended. The drying time will depend on the moisture level, we advise drying for 4-12h. Please refer to SDS for safe material handling.

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Stellantis - Chrysler	CPN 5341	UV stabilized special effects color
Toyota	TSM5516G-1	TIS# 01204-00B23

