

TECHNYL® C 230 NATURAL

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 230 Natural is an unreinforced polyamide 6, with improved impact resistance, for injection moulding. This grade offers improved impact strength and higher flexibility. The grade is designed to make technical parts having small or medium sizeThis product is available in natural color.

General Information				
Additive		Impact modifier		
Features		Impact resistance, high		
		Good liquidity		
		Good demoulding performance		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
Resin ID (ISO 1043)		PA6		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
23°C, 24 hr	1.2	--	%	ISO 62
Saturated, 23°C	9.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	3.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2600	720	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	65.0	30.0	MPa	ISO 527-2/1A
Fracture, 23°C	45.0	35.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	7.0	30	%	ISO 527-2
Fracture, 23°C	> 50	> 200	%	ISO 527-2
Flexural Modulus (23°C)	2500	800	MPa	ISO 178
Flexural Stress (23°C)	100	35.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	90	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact (23°C)	9.0	80	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	--	18	kV/mm	IEC 60243-1
Relative Permittivity	3.50	4.00		IEC 60250
Dissipation Factor	0.20	0.12		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 - 235		°C	
Middle Temperature	235 - 240		°C	
Front Temperature	235 - 245		°C	
Mold Temperature	60 - 80		°C	
Injection instructions				

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4h

Injection Advice:

For unfilled polyamide, Solvay recommends the use of high alloy steel with a weak chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C.

The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

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