

TECHNYL® B 230 GREY 1421 H

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:

TECHNYL® B 230 Grey 1421 H is an unfilled copolyamide 6.6/6, impact modified, for injection moulding. This product offers an excellent notched impact resistance, even at low temperature.

General Information				
Additive		Impact modifier		
Features		Impact resistance, good		
		Good demoulding performance		
		Excellent appearance		
Uses		Fasteners		
		Connector		
		Sporting goods		
		Footwear		
Appearance		Black		
		Grey		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA66/6		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2300	900	MPa	ISO 527-2/1A
Tensile Strength				
Yield, 23°C	65.0	--	MPa	ASTM D638
Yield, 23°C	60.0	45.0	MPa	ISO 527-2/1A
Fracture, 23°C	50.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield, 23°C	5.0	12	%	ISO 527-2
Fracture, 23°C	70	--	%	ASTM D638
Fracture, 23°C	50	250	%	ISO 527-2
Flexural Modulus				
23°C	2400	--	MPa	ASTM D790

23°C	2000	700	MPa	ISO 178
Flexural Strength				
23°C	85.0	--	MPa	ASTM D790
23°C	80.0	27.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact				
23°C	140	--	J/m	ASTM D256
23°C	7.0	18	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	62.0	--	°C	ISO 75-2/Af
Melting Temperature	242	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+15	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength (2.00 mm)	20	16	kV/mm	IEC 60243-1
Comparative Tracking Index				IEC 60112
Solution a	600	600	V	IEC 60112
Solution B	475	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
Oxygen Index	21	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	250 - 260		°C	
Middle Temperature	255 - 265		°C	
Front Temperature	265 - 275		°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 reinforced polyamide, Solvay recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (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.

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