

TECHNYL® B 230 NATURAL

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:

TECHNYL® B 230 Natural is an unfilled copolyamide 6.6/6, impact modified, for injection molding. The product is available in natural color.

General Information				
Additive		Impact Modifier		
Features	Good Flexibility			
	Good Surface Finish			
	Impact Modified			
	Low Temperature Impact Resistance			
	Medium Impact Resistance			
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Part Marking Code (ISO 11469)		>PA66/6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	2.1	--	%	
Flow	2.2	--	%	
Water Absorption (23°C, 24 hr)	1.4	--	%	ISO 62
Molding Shrinkage Isotropy	1.07	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2300	900	MPa	ISO 527-2/1A
Tensile Strength				
Yield	65.0	--	MPa	ASTM D638
Yield	60.0	45.0	MPa	ISO 527-2/1A
Break	50.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	5.0	12	%	ISO 527-2/1A
Break	70	--	%	ASTM D638

Break	50	250	%	ISO 527-2/1A
Flexural Modulus				
--	2400	--	MPa	ASTM D790
--	2000	700	MPa	ISO 178
Flexural Strength				
--	85.0	--	MPa	ASTM D790
--	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 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	185	--	°C	ASTM D648
1.8 MPa, Unannealed	70.0	--	°C	ASTM D648
1.8 MPa, Unannealed	62.0	--	°C	ISO 75-2/Af
Melting Temperature	242	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	7.0E-5	--	cm/cm/°C	ASTM D696, ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+12	ohms · cm	IEC 60093
Electric Strength	20	16	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.070		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	475	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Oxygen Index	21	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	245 to 255		°C	
Middle Temperature	255 to 265		°C	
Front Temperature	265 to 275		°C	
Mold Temperature	60.0 to 90.0		°C	

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