

TECHNYL® A 230 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Unreinforced and modified polyamide 66, with improved impact resistance, for injection moulding.

General Information				
Features		Good Impact Resistance Good Stiffness		
Uses		Fasteners		
Appearance		Black Grey Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2550	1400	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	70.0	40.0	MPa	
Break	50.0	40.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	5.0	15	%	
Break	30	100	%	
Flexural Modulus	2250	1200	MPa	ISO 178
Flexural Stress	95.0	47.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU

Notched Izod Impact Strength	8.0	16	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	7.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	16	kV/mm	IEC 60243-1
Relative Permittivity	3.20	3.20		IEC 60250
Dissipation Factor	0.020	0.10		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	500	--	V	
Solution B	475	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	21	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 265		°C	
Middle Temperature	270 to 275		°C	
Front Temperature	275 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	

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