

TECHNYL® A 221 NATURAL FA

Polyamide 66
Solvay Engineering Plastics

Message:

Product in development Unreinforced polyamide 66, medium viscosity, for injection moulding, with a special crystallizing agent, for fast cycles. Suitable for food contact applications

General Information			
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Medium Viscosity		
	Nucleated		
Uses	Automotive Applications		
	Connectors		
	Consumer Applications		
	Electrical/Electronic Applications		
	Valves/Valve Parts		
Appearance	Natural Color		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PA66<		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183/A
Molding Shrinkage			Internal Method
Across Flow	1.6	%	
Flow	1.3	%	
Water Absorption (23°C, 24 hr)	1.1	%	ISO 62
Molding Shrinkage Isotropy	0.820		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1A
Tensile Stress (Break)	95.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	20	%	ISO 527-2/1A
Flexural Modulus	3300	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	2.5	kJ/m ²	
-30°C	2.0	kJ/m ²	

Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/Af
Melting Temperature	263	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	6.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	250 to 270	°C	
Middle Temperature	260 to 280	°C	
Front Temperature	270 to 290	°C	
Mold Temperature	60.0 to 80.0	°C	

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