

# Polimid A SG/5 NATURAL

Polyamide 66

Poliblend S.p.a.

# PROSPECTOR®

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## Technical Data

### Product Description

PA 66 - IMPROVED MOLDABILITY

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• Technical Datasheet (English) • Technical Datasheet (Italian)
Search for UL Yellow Card	• Poliblend S.p.a.
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America
Features	• Good Moldability
Appearance	• Natural Color

Physical	Nominal Value Unit	Test Method
Density	1.14 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	1.2 to 1.6 %	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	2.6 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3100 MPa	ISO 527-2
Tensile Stress (Yield)	85.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	4.5 %	
Break	35 %	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength	5.5 kJ/m <sup>2</sup>	ISO 180/A
Unnotched Izod Impact Strength	No Break	ISO 180

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	220 °C	ISO 75-2/B
1.8 MPa, Unannealed	75.0 °C	ISO 75-2/A
Continuous Use Temperature <sup>3</sup>	90.0 °C	IEC 60216
Vicat Softening Temperature	250 °C	ISO 306/A
Ball Pressure Test (> 165°C)	Pass	IEC 60695-10-2
Melting Temperature	260 °C	DSC

Electrical	Nominal Value Unit	Test Method
Comparative Tracking Index	> 600 V	IEC 60112

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.8 mm	V-2	
1.6 mm	V-2	
3.2 mm	V-2	
Glow Wire Flammability Index (2.0 mm)	825 °C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.0 mm)	725 °C	IEC 60695-2-13

Injection	Nominal Value Unit
Drying Temperature	80 to 90 °C
Drying Time	> 3.0 hr
Processing (Melt) Temp	260 to 280 °C
Mold Temperature	70 to 90 °C

