

INNOMID® CS 6-9000 HI

Polyamide 6 Alloy

Inno-Comp Ltd.

Message:

INNOMID ® CS 6-9000 HI is an unfilled, elastomer modified polyamide (PA-6) compound. This grade is available in nature and custom coloured form.

Recommended application

INNOMID ® CS 6-9000 HI is recommended for producing injection moulded products, where the required properties are high stiffness and good impact resistance.

General Information			
Features	Rigidity, high		
	Impact resistance, good		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA-6		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	113	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/2
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/1A/50
Flexural Modulus ¹	1800	MPa	ISO 178
Flexural Stress ²	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	DIN 53482
Comparative Tracking Index (Solution A)	525	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 80.0	°C	
Suggested Max Moisture	0.10	%	
Rear Temperature	220 - 260	°C	

Middle Temperature	220 - 260	°C
Front Temperature	220 - 260	°C
Processing (Melt) Temp	240 - 260	°C
Mold Temperature	60.0 - 100	°C
Injection Rate	Moderate	

Injection instructions

Holding Pressure: 50-100% of actual injection pressure

NOTE

1. Type 1A, 2.0 mm/min
2. Type 1A, 2.0 mm/min

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