

INNOMID® CS 6-9000

Polyamide 6 Alloy

Inno-Comp Ltd.

Message:

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

Recommended application

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

General Information			
Features	Rigidity, high		
	High strength		
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
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.80	%	ISO 294-4
Flow direction	0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3470	MPa	ISO 527-2/2
Tensile Stress (Yield)	84.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	3.6	%	ISO 527-2/1A/50
Fracture	13	%	ISO 527-2/1A/50
Flexural Modulus ¹	2700	MPa	ISO 178
Flexural Stress ²	103	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	ISO 179/1eA
23°C	4.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	190	kJ/m ²	ISO 179/1eU
23°C	180	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/A

-30°C	3.8	kJ/m ²	ISO 180/A
23°C	4.8	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	175	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

