

## KIMIA® 6.6(CN100)

**MATERIAL NAME: PA6.6**

**COLOR: NATURAL**

**CODE: CN100**

**MATERIAL DESCRIPTION:** Kimia® CN100 is a general purpose un-reinforced, lubricated, natural color prime Polyamide 6.6 resin for injection molding.

No.	PROPERTIES		METHOD	UNIT	VALUE
<b>PHYSICAL PROPERTIES</b>					
1	ASH CONTENT		ISO 3451	%	0.00
2	RELATIVE DENSITY		ISO 1183	g/cm <sup>3</sup>	1.14
3	VISCOSITY NUMBER		ISO 307	Cm <sup>3</sup> /gr	---
4	MOISTURE CONTENT		ISO 62	%	0.22
<b>MECHANICAL PROPERTIES</b>					
5	TENSIL STRENGTH AT BREAK (5mm/min)		ASTM/D638	MPa	70-80
6	ELONGATION AT BREAK (5mm/min)		ASTM/D638	%	148
7	TENSIL MODULUS (5mm/min)		ASTM/D638	MPa	3000-4000
8	NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m <sup>2</sup>	6.5
9	UN NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m <sup>2</sup>	N.B
<b>THERMAL PROPERTIES</b>					
10	HARDNESS		ISO 868	Shore D	74
11	MFI		ASTM/D1238	g/10min	---
12	VICAT(50° C/h)	10N	ASTM/D1238	° C	240
		50N			
<b>FLAMMABILITY</b>					
13	HDT (120° C/h)	264psi	ASTM/D648	° C	71
		66psi			233
14	Flammability	Class	UL94	-	V2
<b>INJECTION PROCESS PARAMETERS</b>					
<i>Loading</i>		<i>Injection</i>		<i>Degassing</i>	
<i>Speed</i>	<i>Pressure (Bar)</i>	<i>Speed</i>	<i>Pressure (Bar)</i>	<i>Temperature</i>	<i>Time</i>
60	80	70	90	80 °C	1h
<i>Mold Releasing</i>		<i>Zone</i>			
<i>Good</i>		5	4	3	2
		- °C	260 °C	265 °C	270 °C
					1
					275 °C