

KIMIAFORM[®] POM(920GN)

MATERIAL NAME: POM COLOR: NATURAL CODE: 920GN

MATERIAL DESCRIPTION: Kimiaform[®] 920GN is a 20% glass fiber reinforced, prime, natural Polyacetal resin for injection molding.

No.	PROPERTIES		METHOD	UNIT	VALUE
PHYSICAL PROPERTIES					
1	ASH CONTENT		ISO 3451	%	19.8
2	RELATIVE DENSITY		ISO 1183	g/cm ³	1.53
3	VISCOSITY NUMBER		ISO 307	Cm ³ /gr	-
4	MOISTURE CONTENT		ISO 62	%	0.21
MECHANICAL PROPERTIES					
5	TENSIL STRENGTH AT BREAK (5mm/min)		ASTM/D638	MPa	102
6	ELONGATION AT BREAK (5mm/min)		ASTM/D638	%	7.8
7	TENSIL MODULUS (5mm/min)		ASTM/D638	MPa	7.000
8	NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m ²	7.5
9	UN NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m ²	32.4
THERMAL PROPERTIES					
10	HARDNESS		ISO 868	Shore D	74
11	MFI		ASTM/D1238	g/10min	-
12	VICAT(50° C/h)	10N	ASTM/D1238	° C	164
		50N			157
FLAMMABILITY					
13	HDT (120° C/h)	264psi	ASTM/D648	° C	165
		66psi			189
14	Flammability	Class	UL94	-	-
INJECTION PROCESS PARAMETERS					
<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>
70	90	90	110	80 °C	2h
<i>Mold Releasing</i>		<i>Zone</i>			
<i>Good</i>		5	4	3	2
		- °C	175°C	180°C	185°C
					1
					190°C