

FOROLEN[®] PP(2050GN)

MATERIAL NAME: PP

COLOR: NATURAL

CODE: 2050GN

MATERIAL DESCRIPTION: Forolen[®] PP 2050GN is a 20% glass fiber reinforced, prime, natural homo Polypropylene resin for injection molding.

No.	PROPERTIES		METHOD	UNIT	VALUE
PHYSICAL PROPERTIES					
1	ASH CONTENT		ISO 3451	%	20
2	RELATIVE DENSITY		ISO 1183	g/cm ³	1.05
3	VISCOSITY NUMBER		ISO 307	Cm ³ /gr	-
4	MOISTURE CONTENT		ISO 62	%	0.23
MECHANICAL PROPERTIES					
5	TENSIL STRENGTH AT BREAK (5mm/min)		ASTM/D638	MPa	63
6	ELONGATION AT BREAK (5mm/min)		ASTM/D638	%	12
7	TENSIL MODULUS (5mm/min)		ASTM/D638	MPa	5400
8	NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m ²	8.0
9	UN NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m ²	33.3
THERMAL PROPERTIES					
10	HARDNESS		ISO 868	Shore D	69
11	MFI		ASTM/D1238	g/10min	-
12	VICAT(50° C/h)	10N	ASTM/D1238	° C	173
		50N			158
FLAMMABILITY					
13	HDT (120° C/h)	264psi	ASTM/D648	° C	143
		66psi			158
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>
60	80	60	80	50 °C	0.5
<i>Mold Releasing</i>		<i>Zone</i>			
<i>Good</i>		5	4	3	2
		- °C	165 °C	170 °C	175 °C
					1
					180 °C