

## KIMIALON<sup>®</sup> PA6 (B312R)

**MATERIAL NAME: PA6**

**COLOR: BLACK**

**CODE: B312R**

**MATERIAL DESCRIPTION:** Kimialon<sup>®</sup> PA6 (B312R) is a medium impact resistance, un-reinforced, lubricated, black regenerated; Polyamide 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>	1.04
3	VISCOSITY NUMBER		ISO 307	Cm <sup>3</sup> /gr	---
4	MOISTURE CONTENT		ISO 62	%	0.3
<b>MECHANICAL PROPERTIES</b>					
5	TENSIL STRENGTH AT BREAK (5mm/min)		ASTM/D638	MPa	48
6	ELONGATION AT BREAK (5mm/min)		ASTM/D638	%	260
7	TENSIL MODULUS (5mm/min)		ASTM/D638	MPa	2200
8	NOTCHED IMPACT STRENGTH-IZOD		ISO 180	Kj/m <sup>2</sup>	4643
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	65
11	MFI		ASTM/D1238	g/10min	-
12	VICAT(50° C/h)	10N	ASTM/D1238	° C	200
		50N			180
<b>FLAMMABILITY</b>					
13	HDT (120° C/h)	264psi	ASTM/D648	° C	58
		66psi			182
14	Flammability	Class	UL94	-	-
<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	80	100	80 °C	0.5h
<i>Mold Releasing</i>		<i>Zone</i>			
<i>Good</i>		5	4	3	2
		- °C	215 °C	220 °C	225 °C
					1
					230 °C