

## Clariant Renol PA2SP0008HW Nylon 6, Heavyweight Compound

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-PA2SP0008HW-Nylon-6-Heavyweight-Compound.php](http://www.lookpolymers.com/polymer_Clariant-Renol-PA2SP0008HW-Nylon-6-Heavyweight-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	6.00 g/cc	6.00 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.5 MPa	8200 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Temperature 22.8 °C	0.700 ft-lb/in @Temperature 73.0 °F	ASTM D256

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 260 °C	460 - 500 °F	
Mold Temperature	65.6 - 79.4 °C	150 - 175 °F	
Dry Time	2 - 4 hour @Temperature 79.4 °C	2 - 4 hour @Temperature 175 °F	to ensure moisture content is less than 0.2%
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 1.72 MPa	50.0 - 250 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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