

## Clariant Renol PA211 Nylon 6, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-PA211-Nylon-6-General-Purpose.php](http://www.lookpolymers.com/polymer_Clariant-Renol-PA211-Nylon-6-General-Purpose.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	75 %	75 %	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ASTM D648

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	0.000 - 0.345 MPa	0.000 - 50.0 psi	

Shot Size Processing Properties	30 - 80 % Metric	30 - 80 % English	Comments
Screw Speed	20 - 100 rpm	20 - 100 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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