

## Clariant PA233 Nylon 6, Improved Processability, Easily Colorable, Toughened

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-PA233-Nylon-6-Improved-Processability-Easily-Colorable-Toughened.php](http://www.lookpolymers.com/polymer_Clariant-PA233-Nylon-6-Improved-Processability-Easily-Colorable-Toughened.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	1.35 %	1.35 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.6 MPa	6900 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	77.9 MPa	11300 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Multi-axial Impact @ -30°C Total Energy	62.0 J	45.7 ft-lb	ASTM D3763
	@Thickness 12.7 mm	@Thickness 0.500 in	
	169 J	125 ft-lb	ASTM D3763
	@Thickness 25.4 mm	@Thickness 1.00 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	104 °C	220 °F	
	249 - 277 °C	480 - 530 °F	
Mold Temperature	65.6 - 79.4 °C	150 - 175 °F	
Dry Time	2 - 4 hour	2 - 4 hour	dehumidified dryer
Moisture Content	<= 0.20 %	<= 0.20 %	Processing

## Contact Songhan Plastic Technology Co.,Ltd.

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