

# Clariant Nylon 6 6253-L

Polyamide 6  
Clariant Corporation

Message:

Clariant Nylon 6 6253-L is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.  
Important attributes of Clariant Nylon 6 6253-L are:  
Impact Modified  
Lubricated

General Information			
Additive	Impact Modifier		
	Lubricant		
Features	Impact Modified		
	Lubricated		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.7	%	ASTM D955
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	171	°C	
1.8 MPa, Unannealed	60.0	°C	
Melting Temperature	218	°C	
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Suggested Max Regrind	25	%	
Rear Temperature	210 to 227	°C	
Middle Temperature	221 to 243	°C	
Front Temperature	238 to 260	°C	

Nozzle Temperature	227 to 249	°C
Mold Temperature	54.4 to 93.3	°C
Injection Pressure	34.5 to 103	MPa
Back Pressure	0.00 to 5.52	MPa
Screw Speed	30 to 90	rpm

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#### Recommended distributors for this material

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