Clariant Nylon 6 PA213N40

Polyamide 6

Clariant Corporation

Message:

Clariant Nylon 6 PA213N40 is a polyamide 6 (nylon 6) material that contains 40% glass \minerals. This product is available in North America and is processed by injection molding.
The typical application field of Clariant Nylon 6 PA213N40 is: automobile industry

General Information			
Filler / Reinforcement	Glass \mineral, 40% filler by weight		
Uses	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.49	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	141	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	9310	MPa	ASTM D790
Flexural Strength (Yield)	207	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	216	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	204	°C	ASTM D648
Injection	**Nominal Value**	**Unit**	
Drying Temperature	79.4	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.20	%	
Suggested Shot Size	30 - 80	%	
Rear Temperature	249 - 266	°C	
Middle Temperature	249 - 266	°C	
Front Temperature	254 - 271	°C	
Nozzle Temperature	254 - 274	°C	
Processing (Melt) Temp	254 - 271	°C	
Mold Temperature	79.4 - 121	°C	
Injection Pressure	8.27 - 13.8	MPa	
Back Pressure	0.345	MPa	
Screw Speed	20 - 100	rpm	

Injection instructions

This material should be dried in a dessicant dryer.Injection Pressure, Initial: 1200 to 2000 psiInjection Pressure, Secondary: 60% of Initial

Recommended distributors for this material

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