NYCOA NanoTUFF™ NT-90-100

Polyamide 612

Nycoa (Nylon Corporation of America)

Message:

NYCOA nanoTUFF™ NT - 90-100 is Nylon 6 based Nanocomposite with 10% clay loading made via in-situ polymerization for optimum nano-clay exfoliation.
NYCOA nanoTUFF™ NT - 90-100 can be tailor-made to any specific viscosity range, depending upon the final application. This grade offers a 100% improvement in stiffness vs. neat Nylon 6, and is comparable in stiffness to a 20% glass-filled Nylon. In addition, barrier properties to water, oxygen, carbon dioxide, and fuel are improved approximately 80% vs. neat Nylon 6.

General Information			
Filler / Reinforcement	Clay filler, 10% filler by weight		
Features	Moisture proof Rigidity, high Good chemical resistance Fuel resistance Barrier resin		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.16	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]	51.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	2.0	%	ASTM D638
Flexural Modulus [3]	5520	MPa	ASTM D790
Flexural Strength [4]	140	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (6.35 mm)	27	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	155	°C	ASTM D648
Melting Temperature	220	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

Recommended distributors for this material

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