



NYGLOS® as a Reinforcement for Nylon

Product Properties

	NYGLOS® M3	NYGLOS® 4W	NYGLOS® 8	NYGLOS® 12	NYGLOS® M15
G.E. Brightness	89	92	90	82	86
Bulk Density (lbs/cu.ft)(g/cc)					
Loose	(29.9)(0.48)	(12.5)(0.20)	(14.0)(0.22)	(17.5)(0.28)	(30)(0.48)
Tapped	(41.2)(0.66)	(22.0)(0.35)	(30.0)(0.48)	(37.5)(0.60)	(51)(0.82)
Oil Absorption (lbs/100 lbs)	40	75	80	70	42
D50 (µm)	3	4.5	8	12	15
Aspect Ratio (L:D)	5:1	11:1	19:1	13:1	8:1

General Application Benefits

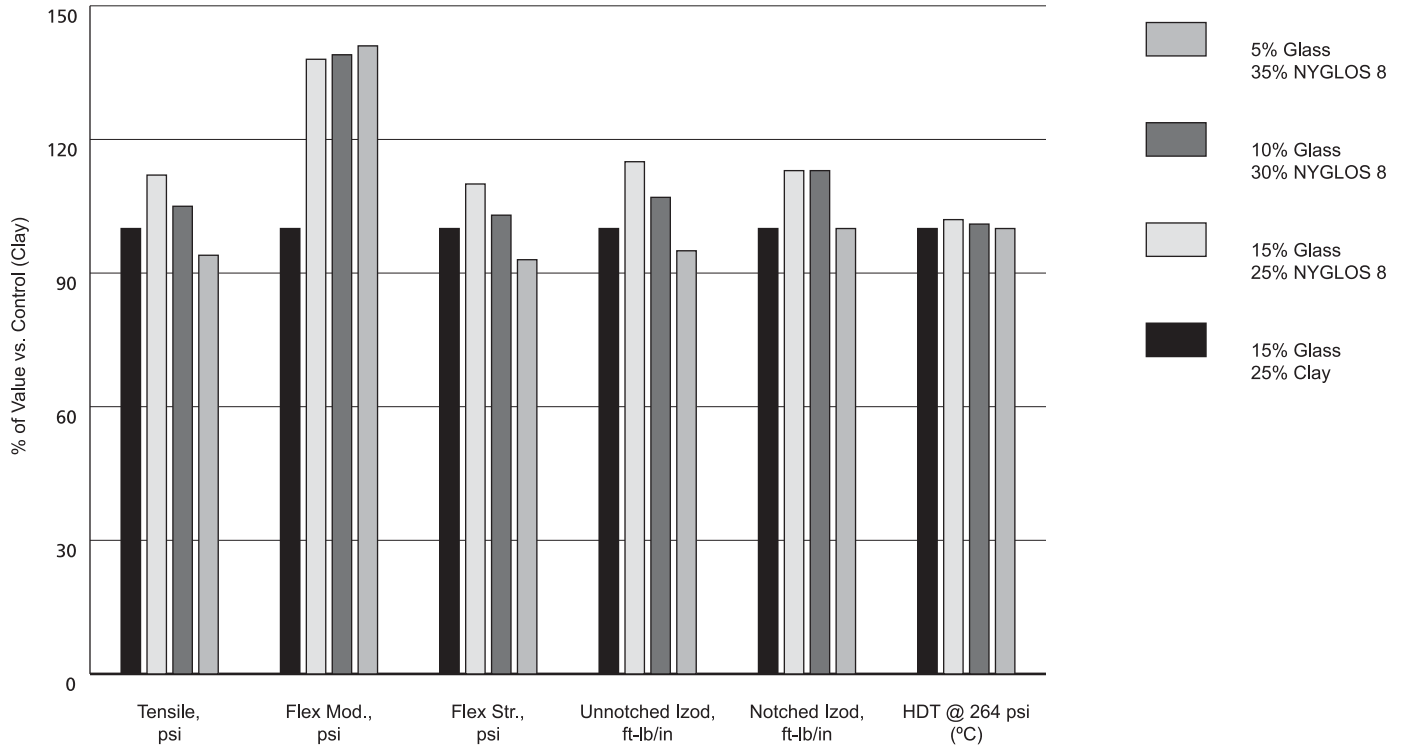
- improved dimensional stability
- cost effective replacement for milled glass fiber
- partial replacement for chopped glass fiber
- heat sag resistance
- increased flexural strength
- excellent balance in stiffness and impact
- comparable shrinkage at lower loadings
- improved mar, scratch and gouge resistance
- lower coefficient of linear thermal expansion (no-gap)
- improved heat distortion temperature
- improved torsional shear modulus
- improved creep resistance
- Class A surface appearance/E-Coat compatible
- non-toxic, odorless material

This data contains general information and describes typical properties only. It is offered for use by persons qualified to determine for themselves the suitability of our products for particular purposes. No guarantee is made or liability assumed, the application of this data and the products described herein being at the sole risk of the user.

NYGLOS® 8 in Glass/Mineral Nylon 6

Benefits

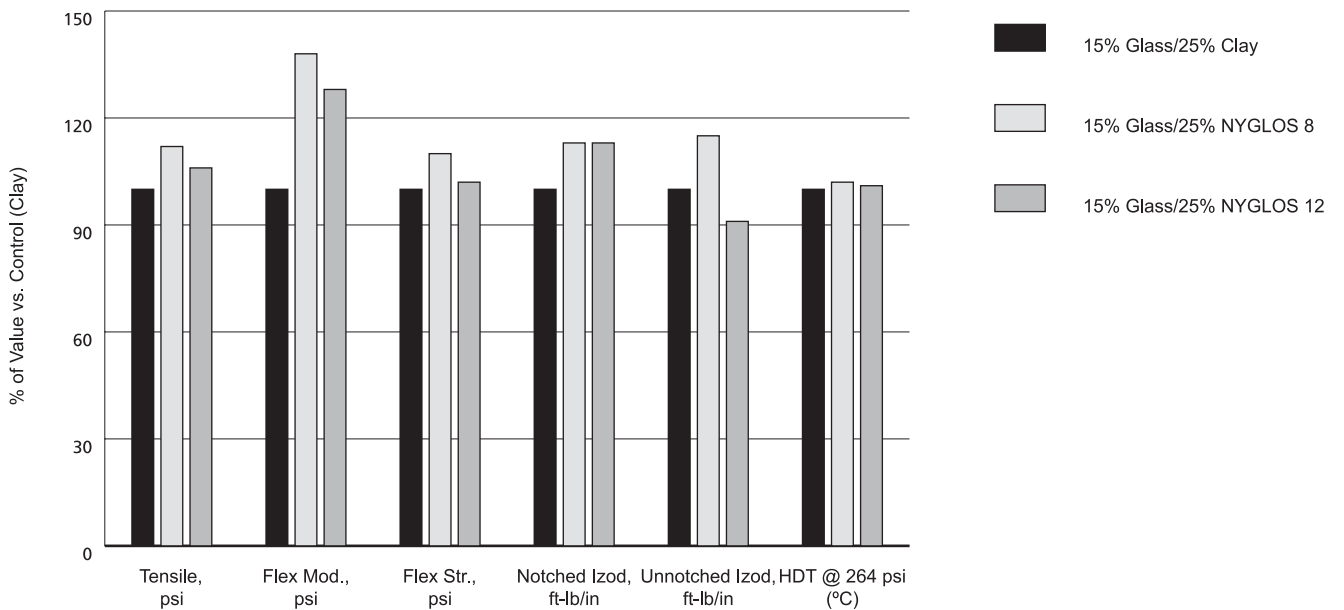
- Improved or equivalent physical properties
- Reduced raw material and compound cost
- Improved surface appearance
- Extension to expensive chopped glass



NYGLOS® in Glass/Mineral Nylon 6 (NYGLOS is untreated)

Benefits

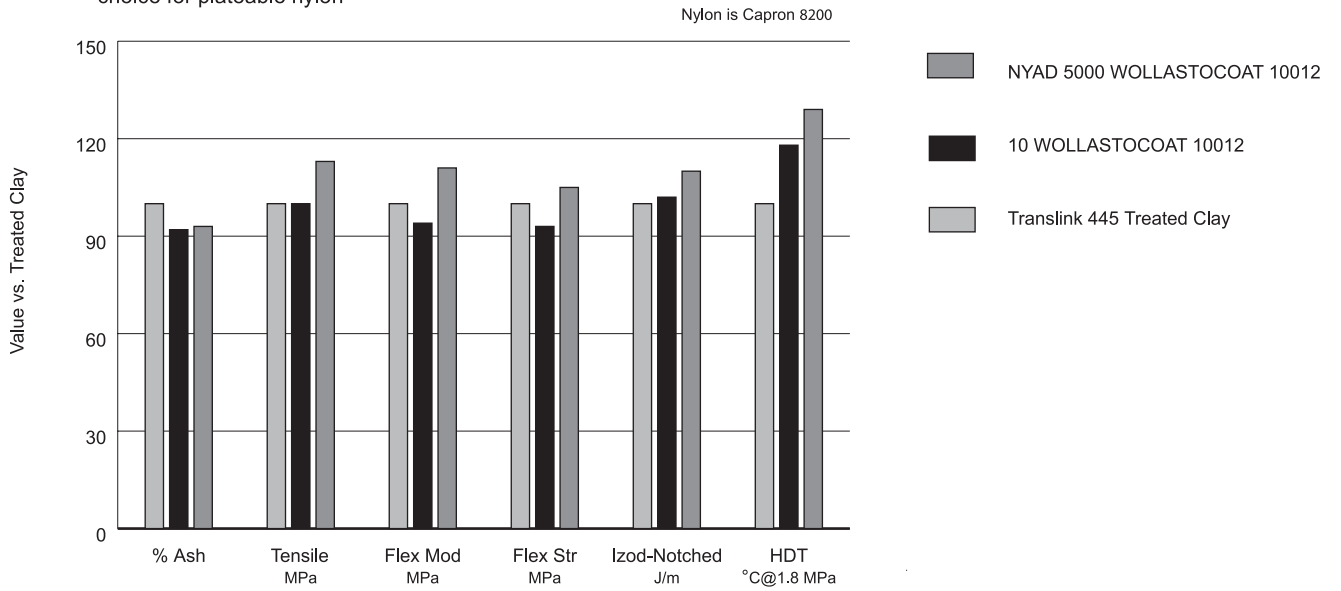
- Improved or equivalent physical properties
- Reduce raw material and compound cost with NYGLOS 12
- Improved properties with NYGLOS 8



10 WOLLASTOCOAT® and NYAD 5000 WOLLASTOCOAT® in Mineral Reinforced Nylon 6 versus Treated Clay

Benefits

- Comparable shrinkage differentials to clay
- Improved or equivalent physical properties
- 10 WOLLASTOCOAT is traditionally the material of choice for plateable nylon
- Can be employed in existing applications
- Reduced splaying at injection gate
- NYAD 5000 WOLLASTOCOAT gives improved plateable adhesion

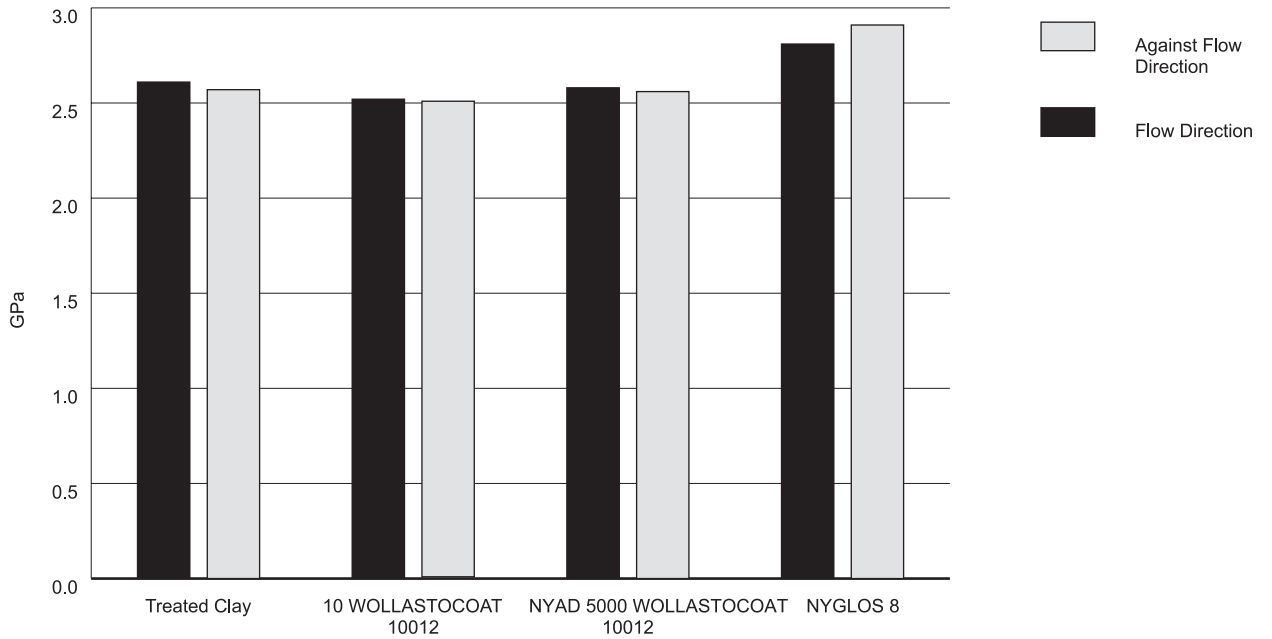


Tortional Shear Modulus (ASTM D4065)

DMA @ 23C, 40% Mineral Nylon 66
Initial Temperature 52°C - Final Temperature 160°C

Benefits

- Maintains stiffness at glass transition temperatures
- Higher tortional shear modulus at evaluated temperatures
- Reduced noise and vibration-improved surface appearance



One Mineral, A World Of Applications

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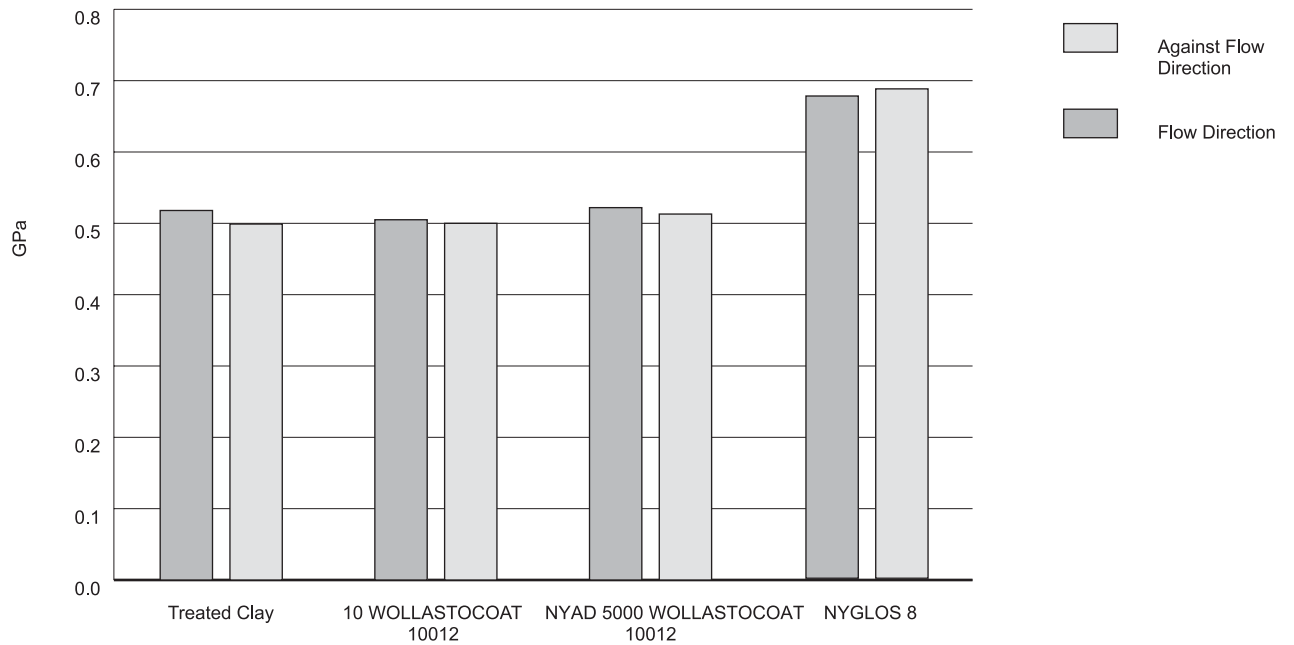
Torsional Shear Modulus (ASTM D4065)

DMA @ 140°C, 40% Mineral Nylon 66

Initial Temperature 52°C - Final Temperature 160°C

Benefits

- Maintains stiffness at glass transition temperatures
- Higher torsional shear modulus at evaluated temperatures
- Reduced noise and vibration-improved surface appearance



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