



**Global Mineral Reinforcement Solutions**

Brand of the **S&B** Group



# **Thermoplastic and Thermoset Guides**

## Thermoset Guide – Compared to Neat Resin in an Unfilled System by NYCO Product

Resin	Product	Resin	Catalyst	Application	Flexural Modulus	Flexural Strength	Heat Sag	Impact Strength	CLTE	HDT	Resistance to Water Vapor Transmission	Painted Surface Appearance VS. Unfilled System	Dispersion (Wet-Out)	Shrinkage
Epoxy amine cured	NYGLOS 12 20914		C	structural adhesives (mineral/glass filled)	++	++	-	n/a	-	++	++	n/a	++	-
	NYGLOS 12 20714	R	C	structural adhesives (mineral/glass filled)	++	++	-	n/a	-	++	++	n/a	++	-
	M400 WOLLASTOCOAT 20914		C	adhesives/encapsulation molding compounds (mineral filled)	+	+	-	n/a	-	+	++	n/a	++	-
	M400 WOLLASTOCOAT 20714	R	C	adhesives/encapsulation molding compounds (mineral filled)	+	+	-	n/a	-	+	++	n/a	++	-
	NYGLOS 8 20914		C	adhesives/encapsulation molding compounds (mineral/glass filled)	++	++	-	n/a	-	++	++	n/a	++	-
	NYGLOS 8 20714	R	C	adhesives/encapsulation molding compounds (mineral/glass filled)	++	++	-	n/a	-	++	++	n/a	++	-
	NYLITE 20914 - <b>NEW</b>	R		Lower raw material cost Replacement for milled carbon fiber	0	0	0	0	0	0	0	+++	+++	0
Epoxy anhydride cured	NYGLOS 12 10644			adhesives/encapsulation molding compounds (mineral/glass filled)	++	++	-	n/a	-	++	+	n/a	+	-
	M400 WOLLASTOCOAT 10644			adhesives/encapsulation molding compounds (mineral filled)	+	+	-	n/a	-	+	+	n/a	+	-
	NYGLOS 8 10644			adhesives/encapsulation molding compounds (mineral/glass filled)	++	++	-	n/a	-	+	+	n/a	+	-
Phenolic	NYGLOS 12 10012			general purpose(mineral/glass filled)	++	++	-	+	-	+	+	0	+	-
	NYGLOS 8 10012			general purpose (mineral/glass filled)	++	++	-	++	-	+	+	0	+	-
	NYAD M325			general purpose (mineral filled)	+	+	-	++	-	+	0	0	0	-

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Polyester	NYGLOS 20	cultured marble (mineral/glass filled)	+	+	+	-	-	+	0	-	0	-
	NYGLOS 8 10734	sulfur cured systems	++	++	++	0	-	+	+	0	++	-
	NYGLOS 8 10414	peroxide cured systems	++	++	++	0	-	+	+	0	++	-
RRIM Polyurethane	RRIMGLOS II 10734	exterior composites (glass replacement)	++	++	-	+	-	+	++	0	++	-
	RRIMGLOS II 10992	exterior composites (glass replacement)	++	++	-	+	-	+	++	0	++	-
Silicone	NYGLOS 4W 10414 ASPECT 3414	sealants/adhesives (mineral filled)	+++	+++	++	+	+++	++	++	n/a	++	-
	NYGLOS 4W/ASPECT 3000	sealants/adhesives (mineral filled)	++	++	++	+	++	++	+	n/a	+	-
	M9414 WOLLASTOCOAT (Extension of silica)	sealants/adhesives (mineral filled)	+	+	+	++	+	+	+	n/a	+	-
DAP	NYGLOS M15	sealants/adhesives (mineral filled)	++	++	-	-	-	+	+	n/a	+	-
	M400 WOLLASTOCOAT 10012	sealants/adhesives (mineral filled)	+	+	-	++	-	+	+	n/a	++	-
	NYAD M400	sealants/adhesives (mineral filled)	+	+	-	+	-	+	+	n/a	+	-

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PC/ABS	M1250 WOLLASTOCOAT 10992	Mineral Filled	+	+	+	++	+++	-	0	+	--	0	+	-
	NYGLOS 4W 10734/ASPECT 3734	Mineral Filled	++	++	++	+	++	-	0	++	--	0	+	--
	NYGLOS 4W 10992/ASPECT 3992	Mineral Filled	++	++	++	+	++	-	0	+	--	0	+	--
PPE-PA PPE-PS PPO	M9000 WOLLASTOCOAT 10804	Mineral Filled (Bumper Panels)	+	+	+	+	+++	-	0	+	-	0	+	-
	M9000 WOLLASTOCOAT 10734	Mineral Filled (Body Panels)	+	+	+	++	+++	-	0	+	-	0	+	-
	NYGLOS 4W 10992/ASPECT 3992	Mineral Filled	++	++	++	++	+++	--	0	++	--	0	++	--
	NYGLOS 8 10992	Mineral/Glass Filled	+++	+++	+++	+	++	--	0	+++	--	0	++	--
Acrylics	NYAD M1250	Mineral Filled	+	+	+	+	+	-	0	+	-	0	+	-
	M1250 WOLLASTOCOAT 10734	Mineral Filled	+	+	+	+++	+++	-	0	+	--	0	++	-
	NYGLOS 8 10734	Mineral/Glass Filled	+++	+++	+++	+	++	--	0	+++	--	0	++	--
	NYGLOS 4W 10734/ASPECT 3734	Mineral Filled	++	++	++	++	+++	--	0	++	-	0	+	--
LCP	NYGLOS 4W 10734/ASPECT 3734	Mineral Filled	++	++	++	+	++	-	0	++	--	0	++	--
	NYGLOS 8	Mineral Filled	++	++	++	+	+	--	0	+++	-	0	0	--
	NYGLOS 8 10734	Mineral/Glass Filled	++	++	++	+	+	--	0	+++	--	0	++	--
Nylon 6 and 66	NYGLOS 8 20914	Mineral/Glass Filled	++	++	++	++	++	--	0	++	-	0	+	--
	NYGLOS 8 20914	Mineral/Glass Filled	+++	++	++	++	++	--	0	+++	-	0	+	--
	M400 WOLLASTOCOAT 20914	Mineral/Glass Filled	+	+	+	++	++	-	0	+	-	0	+	-
	M1250 WOLLASTOCOAT 20914	Mineral Filled	+	+	+	+++	+++	-	0	+	-	0	+	-
	M9000 WOLLASTOCOAT 20914	Mineral Filled	+	+	+	+++	+++	-	0	+	-	0	+	-
	PHYLLOCOAT 20914 – <b>New Patent Pending</b>	Mineral/Glass Filled (Non-Directional)	++	++	++	+	++	-	0	++	--	0	+	--
PPA	NYGLOS 8 10734	High temperature PA Alloys	+++	+++	+++	+	++	--	0	+++	--	0	++	--
	NYGLOS 4W 10734/ASPECT 3734	High temperature PA Alloys	++	++	++	++	+++	--	0	++	-	0	+	--

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PE	NYGLOS MSTPO	Mineral Reinforcement for wood plastic composites	+	+	+	+	+	-	0	+	-	0	0	-
	NYGLOS 12	Mineral Filled	++	+++	+	+	+	-	0	+	-	0	0	-
	NYGLOS 12 10992	Mineral Filled	++	+++	+	+	+	-	0	+	--	0	++	-
	NYGLOS 4W 10992/ASPECT 3992	Mineral Filled	+++	++	++	++	++	--	0	+++	-	0	0	--
	NYGLOS 8	Mineral Filled	++	+++	++	++	++	--	0	++	-	0	0	--
	NYGLOS 8 10992	Mineral Filled	++	+++	++	++	++	--	0	++	--	0	++	--
	PHYLLOMAT (NEW – Patent Pending)	Masterbatch (Replacement of Calcined Clay)	+	+	++	+	+	+	0	+	++	NA	+	+
PP	NYGLOS 12	Mineral Filled	+	+	+	+	+	-	0	+	-	-	0	-
	NYGLOS 12 10992	Mineral Filled	+	+	+	+	+	-	0	+	--	-	++	-
	NYGLOS 8	Mineral Filled & Glass Replacement	++	++	++	++	++	--	0	++	-	0	0	--
	NYGLOS 8 10992	Mineral Filled & Glass Replacement	++	++	++	++	++	--	0	++	--	0	++	--
	ASPECT 3992	Mineral Filled & Glass Replacement	+	+	+	+++	+++	--	0	++	-	0	0	--
	NYGLOS 4W/ASPECT 3000	Mineral Filled	+	+	+	+++	+++	--	0	++	-	0	0	--
	NYGLOS 4W STO105 - New	Mineral Filled-	+	+	+	+++	++++	--	0	+++	--	0	++	--
	NYLITE STO105 - New	Mineral Filled – Weight Reduction	+++	+++	+++	+++	+++	--	0	+++	--	0	0	--
PET/PBT	NYGLOS 8 Chemically Modified	Mineral/Glass Filled	++	++	++	++	+	--	0	++	-	0	+	--
	NYGLOS 4W Chemically Modified	Mineral Filled	+	+	++	+++	++	--	0	++	-	0	+	--
	M9000 WOLLASTOCOAT 10734	Mineral Filled	++	+	+	++	+++	--	0	+++	--	0	+	-
PPS	NYGLOS 4W 20305/ASPECT 3305	Mineral Filled	+	+	+	++	++	--	0	++	--	0	++	--

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