NYGLOS 8® 10024

COST-EFFECTIVE REINFORCEMENT FOR BULK MOULDING COMPOUNDS

The following tables present the effects of **NYGLOS® 8 10024** (an 8 micron median diameter, surface modified wollastonite) as a partial replacement for 1/4" chopped glass fiber in a general-purpose BMC system processed by compression moulding, screw injection and plunger injection.

The performance data show that partial replacement of chopped glass fiber can be a viable route for formula cost reduction without significantly compromising physical properties.

Compound	Barcol Hardness	Specific Gravity	Shrinkage (In./in.)	Cure Time (Sec.)	Water Absorption (%)
Standard (All Glass)	42	1.94	0.0003	28.5	0.16
NYGLOS 8 10024 (30% Replacement)	42	1.91	0.0003	27.5	0.21

Compound	Tensile Strength (10^3 p.s.i.)	Flexural Strength (10^3 p.s.i.)	Flexural Modulus (10^6 p.s.i.)	Notched Izod Impact (ft.-lb./in.)
Compression Moulded				
Glass	8.16	16.9	2.23	4.90
NYGLOS 8 10024	10.46	16.2	2.21	4.35
Screw Injected				
Glass	6.41	11.9	2.30	1.07
NYGLOS 8 10024	6.00	11.2	2.28	1.06
Plunger Injected				
Glass	5.07	9.56	2.10	2.38
NYGLOS 8 10024	5.01	10.50	2.08	2.07

NYGLOS 8 10024 Benefits:
• Reduced Compound Cost • Reduced End Unit Cost
• Improved Spiral Flow • Improved Long-Term Ageing • Improved Surface Appearance

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