TRANSLUCENT VLF COMPOUNDS

RTP COMPANY FIREARMS PORTFOLIO

FEATURES

- Translucent compounds for visual inspection of ammo count and type
- Formulated with chemically resistant, clear base resins and Very Long Fiber for impact resistance and flexural modulus

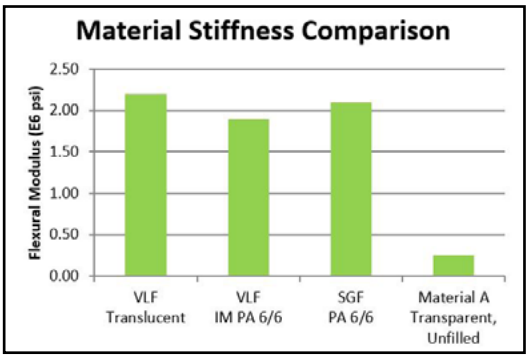
BENEFITS

- Exceptional mechanical performance compared to standard SGF Reinforced Compounds
- Stiffer than other translucent materials on the market
- Avoid the need for metal inserts
- Aesthetically appealing for increased marketability

RTP Company has formulated special translucent compounds with exceptional strength and better impact resistance than standard Short Glass Fiber (SGF) and other materials currently available (see Figure 1). These unique compounds are formulated from chemically resistant, clear base resins and Very Long Fiber (VLF) materials for maximum impact resistance, flexural modulus, and translucency. They are an effective drop-in solution for existing materials, with no tooling modifications necessary.

Firearm magazine manufacturers are continuously challenged to find a material with great impact resistance and the right amount of stiffness – enough to allow deflection for ammunition loading, but not enough to cause a feed lip deformation that impedes ammunition feeding during operation. Our Translucent VLF Compounds are ideal for magazines and other firearm components that could benefit from a precise combination of stiffness, elongation, and impact resistance. In addition, these materials can be tinted for an even more customized look. Parts and components made from these materials have a distinct, appealing aesthetic; the visual advantages of translucency; lighter weight than traditional metal counterparts; and the strength needed to enhance performance and increase marketability.

FIGURE 1: PROPERTY COMPARISON



Property (ASTM)	VLF Translucent	VLF Impact Modified PA 6/6	SGF PA 6/6	Material A Transparent, Unfilled
Tensile Strength, psi	38,000	30,000	30,000	8,000
Tensile Elongation, %	2.10	2.0-3.0	2.0-3.0	10.0+
Flex Strength, psi	52,000	48,000	46,000	10,000
Notched Izod, ft lb/in	4.50	8.00	2.4	0.75
Unnotched Izod, ft lb/in	19.00	28.00	23.00	NB
Specific Gravity	1.60	1.51	1.56	1.00
Fill, %	50	50	50	0

Data is a good start, but of course, the best tests of all are on the molded part itself. RTP Company can help position your magazine or firearm component for success with unbiased material recommendations, specialty formulations, Computer Aided Design (CAE) services, and technical support.

To learn more, contact your local RTP Company Representative or visit www.rtpcompany.com.

RTP Company Corporate Headquarters • 580 East Front Street • Winona, Minnesota 55987 USA **website:** www.rtpcompany.com • **email:** rtp@rtpcompany.com

ISO 9001 REGISTERED FACILITIES

TELEPHONE:

U.S.A.	SOUTH AMERICA	MEXICO	EUROPE	SINGAPORE	CHINA	WIMAN CORPORATION	ESP™
+1 507-454-6900	+55 11 4193-8772	+52 81 8134-0403	+33 380-253-000	+65 6863-6580	+86 512-6283-8383	+1 320-259-2554	+1 800-432-2386