



RTP 100 EXTRA PERFORMANCE SERIES

STRUCTURAL PRODUCT

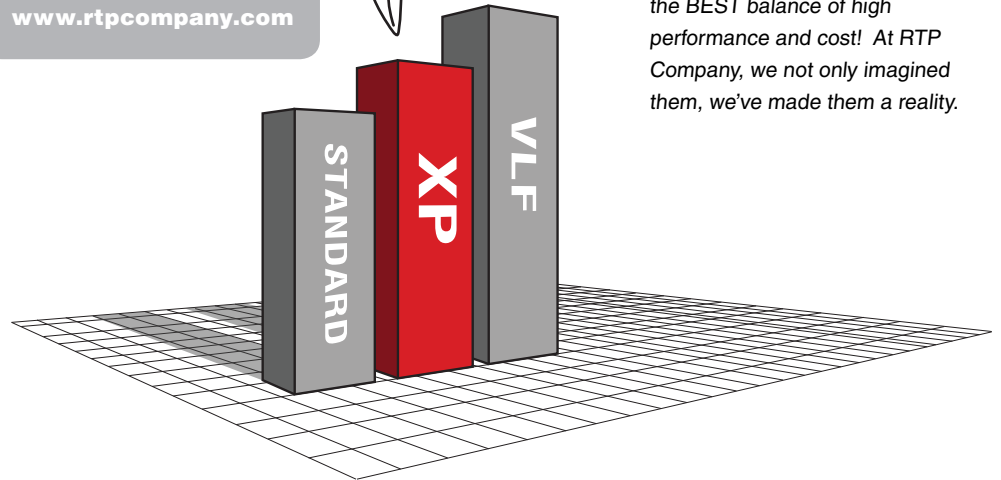
FEATURES

- BEST-IN-CLASS performance compared to similar compounds
- Exceptional balance of high modulus and impact resistance
- Easily injection molded into complex geometries, large or small

BENEFITS

- Extra strength, modulus and impact compared to standard short glass fiber reinforced PP compounds
- Up to 20% increase in modulus at equivalent glass loading levels vs. standard compounds
- Properties not influenced by humidity/moisture
- Impressive cold temperature impact performance
- Long term heat aging improvements
- Suitable for molding using common, general purpose equipment
- Customizable for easy flow; color; UV resistance; low emission, odor, and fogging

Data on glass fiber reinforced polypropylene and other RTP Company compounds are available on our website at www.rtpcompany.com



Imagine what you could create with best-in-class short glass fiber reinforced polypropylene (PP) compounds, optimized to push the envelope and provide the BEST balance of high performance and cost! At RTP Company, we not only imagined them, we've made them a reality.

RTP 100 EXTRA PERFORMANCE (XP)

Compounds are a series of polypropylene compounds formulated for higher strength, modulus, and impact properties than any previously existing standard glass reinforced polypropylene compounds — and by a wide margin. These compounds exhibit up to 20% higher modulus values and more than 50% improvement in impact compared to common glass fiber reinforced polypropylenes! By nature, polypropylene compounds are relatively lightweight; have excellent chemical resistance to a wide range of chemicals, fluids, and lubricants; and are non-hygroscopic. These facts make RTP 100 XP Compounds excellent alternatives to Nylon or other hygroscopic compounds where moisture can reduce the load bearing capability of these polymers.

RTP 100 XP Compounds are made using our optimized manufacturing process, advanced additive technologies, and formulation expertise. They are available worldwide as standard pellets in formulations containing glass fiber reinforcement ranging from 10-50 wt%. Additional additive technologies may be incorporated to create robust compounds that are engineered to meet extremely demanding requirements such as long term heat aging, cold weather impact resistance, flame retardance, ultra violet protection, or compliance with government agency approvals.

The perfect choice for large or small geometries, RTP 100 XP Compounds are easily injection molded with generous processing guidelines making them perfect for any industry application requiring lightweight performance. Possibilities include large structural tote bins, interior automotive trim, office furniture, construction panels, or even complex parts that can fit in the palm of your hand.

The RTP 100 eXtra Performance series of PP compounds is another great solution from RTP Company, your global leader in engineered thermoplastics.



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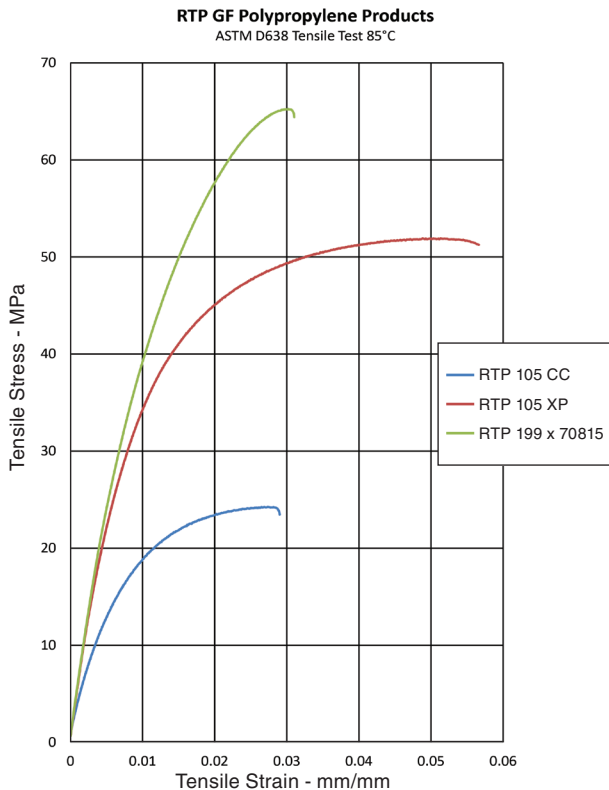
GLASS FIBER REINFORCED POLYPROPYLENE COMPOUNDS

PROPERTY COMPARISON: STANDARD VS. XP COMPOUNDS

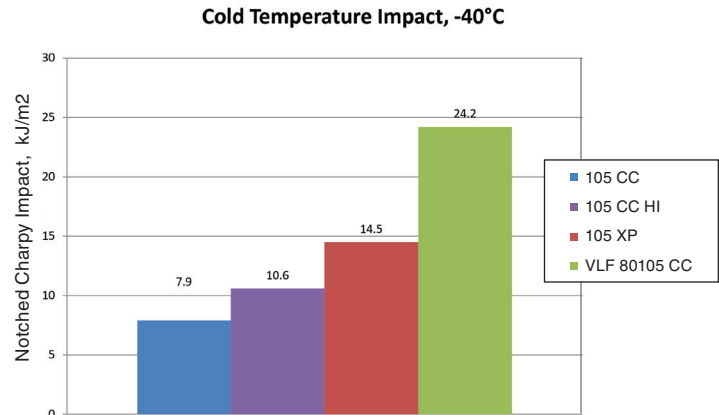
	10% Glass Filled		20% Glass Filled		30% Glass Filled			40% Glass Filled		50% Glass Filled	
	Standard 101 CC	XP 101 XP	Standard 103 CC	XP 103 XP	Standard 105 CC	PA66*	XP 105 XP	Standard 107 CC	XP 107 XP	Standard 109 CC	XP 109 XP
TS (Mpa)	45	65	60	90	75	111	105	82	120	95	132
TM (Mpa)	2500	2750	4000	5000	6000	7720	6500	7000	9000	10500	11000
TE (%)	6.0-8.0	4.0-5.0	5	3.5	4.0-5.0	2.79	3.25	4	3.1	3.5	2.75
FS (Mpa)	65	85	90	140	110	220	165	130	185	150	210
FM (Mpa)	2250	3000	3500	5000	5000	7600	6000	6500	8000	9000	10000
ISONI (kJ/m2)	5	10	7	13	8	10	16	9	17	10	18
ISOUI (kJ/m2)	40	40	42	60	48	45	70	50	75	52	75
SG	0.97	0.97	1.04	1.04	1.13	1.37	1.13	1.22	1.21	1.32	1.33

*Represents conditioned values, equilibrium @50% RH

STRENGTH COMPARISON @ 85°C



COLD TEMPERATURE IMPACT @ -40°C



SUMMARY

RTP 100 XP compounds fill the gap between standard glass filled polypropylene compounds and Very Long Fiber (VLF) compounds. With excellent stiffness and cold temperature impact, XP compounds provide a new and dramatically improved choice in reinforced polypropylene.

RTP COMPANY: YOUR GLOBAL COMPOUNDER OF CUSTOM ENGINEERED THERMOPLASTICS



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