



POLIFIL® RMT DATA SHEET

DOING THE NEEDFUL SINCE 1973

High Impact Talc-Reinforced Polypropylene

Polifil® RMT series compounds are high impact polypropylenes reinforced with asbestos-free talc. In addition to high impact strength, they possess a high flex modulus and high heat deflection resistance. Polifil® RMT products are UL94 HB rated. These compounds are used in automotive applications and conform to the requirements of the FMVSS-302. Standard processing techniques are applicable. Use this information as a guide to aid you in selecting the proper resin for your application. TPG will custom compound and fine-tune our formulations for your application.

| PHYSICAL | ASTM/ Method | Polifil® RMT-10 | Polifil® RMT-20 | Polifil® RMT-30 | Polifil® RMT-40 |
|--|-----------------|--------------------|--------------------|--------------------|--------------------|
| Reinforcement content (%) | TPG WI | 10 | 20 | 30 | 40 |
| Specific gravity | D 792 | 0.98 | 1.05 | 1.15 | 1.24 |
| Melt flow 230/2.16 (g/10 min) | D 1238 | 8-12* | 8-12* | 8-12* | 8-12* |
| Water absorption, 24 hours (%) | D 570 | nil | nil | nil | nil |
| Mold shrinkage – 1/8" specimen (in/in) | D 955 | 0.014 | 0.012 | 0.010 | 0.009 |

MECHANICAL @ 73°F

| | | | | | |
|-----------------------------------|--------|-------|-------|-------|-------|
| Tensile strength (psi) | D 638 | 4,300 | 4,100 | 3,900 | 3,800 |
| Elongation @ yield (%) | D 638 | 10 | 9 | 8 | 6 |
| Elongation @ break (%) | D 638 | 45 | 35 | 25 | 18 |
| Tensile modulus (kpsi) | D 638 | 190 | 250 | 300 | 340 |
| Flexural modulus, tangent (kpsi) | D 790 | 210 | 255 | 310 | 360 |
| Flexural strength (psi) | D 790 | 5,500 | 6,000 | 6,200 | 6,500 |
| Izod impact, notched (ft-lbs/in) | D 256 | 1.1 | 0.9 | 0.8 | 0.8 |
| Gardner impact, 1/2" tup (in-lbs) | D 5420 | 49 | 46 | 43 | 40 |
| Hardness, shore (D-scale) | D 1415 | 70 | 72 | 72 | 74 |

THERMAL

| | | | | | |
|-------------------------------------|-------|-----|-----|-----|-----|
| Deflection temperature, 66psi (°F) | D 648 | 220 | 230 | 240 | 245 |
| Deflection temperature, 264psi (°F) | D 648 | 125 | 130 | 140 | 145 |
| Flammability** (Rating) | UL94 | HB | HB | HB | HB |

*melt flow may be specified

** TPG UL File# E84888. This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Mold shrinkage is intended as a guide only, as specific shrinkage is affected by part design, mold design and molding conditions. Therefore, The Plastics Group disclaims any liability for loss or damage incurred in connection with the use of this product.

The Plastics Group of America

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