

### Simulated Polypropylene - Materials Simulating Standard Plastics

#### Durus White RGD430

|                       | ASTM          | UNITS   | METRIC    | UNITS      | IMPERIAL        |
|-----------------------|---------------|---------|-----------|------------|-----------------|
| Tensile strength      | D-638-03      | MPa     | 20-30     | psi        | 2900-4350       |
| Elongation at break   | D-638-05      | %       | 40-50     | %          | 40-50           |
| Modulus of elasticity | D-638-04      | MPa     | 1000-1200 | psi        | 145,000-175,000 |
| Flexural Strength     | D-790-03      | MPa     | 30-40     | psi        | 4350-5800       |
| Flexural Modulus      | D-790-04      | MPa     | 1200-1600 | psi        | 175,000-230,000 |
| HDT, °C @ 0.45MPa     | D-648-06      | °C      | 37-42     | °F         | 99-108          |
| HDT, °C @ 1.82MPa     | D-648-07      | °C      | 32-34     | °F         | 90-93           |
| Izod Notched Impact   | D-256-06      | J/m     | 40-50     | ft lb/inch | 0.749-0.937     |
| Water Absorption      | D-570-98 24hr | %       | 1.5-1.9   | %          | 1.5-1.9         |
| Tg                    | DMA, E»       | °C      | 35-37     | °F         | 95-99           |
| Shore Hardness (D)    | Scale D       | Scale D | 74-78     | Scale D    | 74-78           |
| Rockwell Hardness     | Scale M       | Scale M | no data   | Scale M    | no data         |
| Polymerized density   | D792          | g/cm3   | 1.15-1.17 |            |                 |
| Ash content           | USP281        | %       | 0.10-0.12 | %          | 0.1-0.12        |

| Rigur RGD450          | ASTM     | UNITS   | METRIC    | UNITS      | IMPERIAL          |
|-----------------------|----------|---------|-----------|------------|-------------------|
| Tensile strength      | D-638-03 | MPa     | 40-45     | psi        | 5800-6500         |
| Elongation at break   | D-638-05 | %       | 20-35     | %          | 20-35             |
| Modulus of elasticity | D-638-04 | MPa     | 1700-2100 | psi        | 246,000 – 305,000 |
| Flexural Strength     | D-790-03 | MPa     | 52-59     | psi        | 7500 - 8500       |
| Flexural Modulus      | D-790-04 | MPa     | 1500-1700 | psi        | 217,000 – 246,000 |
| HDT, °C @ 0.45MPa     | D-648-06 | °C      | 49-54     | °F         | 120-129           |
| HDT, °C @ 1.82MPa     | D-648-07 | °C      | 45-50     | °F         | 113-122           |
| Izod Notched Impact   | D-256-06 | J/m     | 30-35     | ft lb/inch | 0.561-0.656       |
| Tg                    | DMA, E»  | °C      | 48-52     | °F         | 118-126           |
| Shore Hardness (D)    | Scale D  | Scale D | 80-84     | Scale D    | 80-84             |
| Rockwell Hardness     | Scale M  | Scale M | 58-62     | Scale M    | 58-62             |
| Polymerized density   | D792     | g/cm3   | 1.20-1.21 |            |                   |
| Ash content           | USP281   | %       | 0.3-0.4   | %          | 0.3-0.4           |