



PELLETHANE* 2355-80AE

Thermoplastic Polyurethane Elastomer

- Damping capacity

| Properties | Test Method | Values ⁽¹⁾ |
|--|-------------|--------------------------------------|
| Physical | | |
| Specific Gravity | ASTM D 792 | 1.18 |
| Mould Shrinkage (1.6 mm [1/16"] thick plaques), % | | |
| MD | | 0.5-0.6 |
| TD | | 0.2-0.6 |
| Mechanical | | |
| Durometer Hardness, Shore A (+/-4) | ASTM D 2240 | 85A |
| Tensile Modulus at | ASTM D 412 | |
| 50% elongation, MPa (psi) | | 3.9 (560) |
| 100% elongation, MPa (psi) | | 6.2 (900) |
| 300% elongation, MPa (psi) | | 15.2 (2200) |
| Ultimate Tensile Strength, MPa (psi) | ASTM D 412 | 39.2 (5700) |
| Ultimate Elongation, % | ASTM D 412 | 550 |
| Elongation Set After Break, % | ASTM D 412 | 60 |
| Tear Strength, Die "C", KN/m (pli) | ASTM D 624 | 126 (720) |
| Compression Set | ASTM D 395 | |
| 22 hours at 25 °C (77 °F), % | Method B | 25 |
| 22 hours at 70 °C (158 °F), % | | 75 |
| Taber Abrasion Resistance | ASTM D 1044 | |
| 1000 g, 1,000 cycles; H-22 wheel (coarser), mg | | 10 |
| Flexural Modulus, MPa (psi) | ASTM D 790 | - |
| Thermal | | |
| Vicat Softening Temperature, °C (°F) | ASTM D 1525 | 92.7 (199) |
| Coefficient of Linear Thermal Expansion, 10 ⁻⁶ mm/mm/°C | ASTM D 696 | 166 (92.0 10 ⁻⁶ in/in/°F) |
| Glass Transition Temperature, °C (°F) | DSC | -37 (-35) |
| Rheological | | |
| Melt Index, 190°C, 8700 g, g/10 min | ASTM D 1238 | 7 |
| Processing Information | | |
| Recommended Drying Temperature, °C (°F) | | 80-95 (180-200) |
| Recommended Melt Temperature (Moulding), °C (°F) | | 195-205 (380-400) |
| Recommended Melt Temperature (Extrusion), °C (°F) | | 190-205 (370-400) |
| Recommended Mould Temperature, °C (°F) | | 15-60 (60-140) |

1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.

