

ARLEN™ A335

PA6T-GF35

Mitsui Chemicals, Inc.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.003 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.006 | mm/mm | ASTM D 955 |

| Mechanical properties | dry / cond | Unit | Test Standard |
|-----------------------------|---------------|------|---------------|
| ASTM Data | | | |
| Tensile Strength | 240 / 220 | MPa | ASTM D 638 |
| Flexural Modulus | 12000 / 11000 | MPa | ASTM D 790 |
| Flexural Strength | 360 / 320 | MPa | ASTM D 790 |
| Rockwell Hardness | M 110 / | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 130 / 150 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Coefficient of Thermal Expansion, MD | 20 | E-6/K | ASTM D 696 |
| Coefficient of Thermal Expansion, TD | 45 | E-6/K | ASTM D 696 |
| DTUL @ 264 psi | 310 | °C | ASTM D 648 |
| Melting Temperature | 320 | °C | ASTM D 3418 |
| Glass Transition Temperature | 125 | °C | ASTM E 1356 |

| Electrical properties | dry / cond | Unit | Test Standard |
|---------------------------------|------------|--------|---------------|
| ASTM Data | | | |
| Dielectric Strength, Short Time | 27 / - | kV/mm | ASTM D 149 |
| Dissipation Factor, 1 MHz | 0.018 / - | - | ASTM D 150 |
| Dielectric Constant, 1 MHz | 4.5 / - | - | ASTM D 150 |
| Volume Resistivity | >1E15 / - | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 0.3 | % | ASTM D 570 |
| Density | 1480 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 110 | °C | - |
| Pre-drying - Time | 2 - 6 | h | - |
| Mold temperature | 90 - 140 | °C | - |
| Feed temperature | 50 - 90 | °C | - |
| Zone 1 | 315 - 330 | °C | - |
| Zone 2 | 320 - 335 | °C | - |
| Zone 3 | 325 - 340 | °C | - |
| Nozzle temperature | 325 - 340 | °C | - |
| Screw speed | 150 | rpm | - |

Characteristics

Processing
Injection Molding

Applications
Automotive

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific