

ColorFast® FRNY2

Americhem - Polyamide 66

General Information

Product Description

V-0 Rated nylon 6/6

General

| | |
|-------------------|---|
| Material Status | • Commercial: Active |
| Availability | • Africa & Middle East • Europe • North America • Asia Pacific • Latin America |
| Additive | • Flame Retardant |
| Features | • Excellent Colorability • Flame Retardant |
| Uses | • Closures • Household Goods • Industrial Parts • Consumer Applications • Housings • Outdoor Applications • Engineering Parts • Industrial Applications |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------|----------|-------------|
| Density / Specific Gravity | 1.19 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 0.015 to 0.020 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 1.3 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield) | 9500 | psi | ASTM D638 |
| Tensile Elongation ² (Yield) | 4.0 | % | ASTM D638 |
| Tensile Elongation ² (Break) | 50 | % | ASTM D638 |
| Flexural Modulus ² | 390000 | psi | ASTM D790 |
| Flexural Strength ² | 10000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F) | 1.0 | ft·lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 110 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in) | 150 | °F | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.10 in) | V-0 | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 180 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Drying Time, Maximum | 8.0 | hr |
| Suggested Shot Size | 30 to 60 | % |
| Rear Temperature | 460 to 560 | °F |
| Middle Temperature | 460 to 560 | °F |
| Front Temperature | 470 to 560 | °F |
| Nozzle Temperature | 480 to 550 | °F |
| Processing (Melt) Temp | 490 to 550 | °F |
| Mold Temperature | 100 to 200 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 60 to 120 | rpm |



| | |
|------------|---------------------|
| Vent Depth | 1.5E-3 to 3.0E-3 in |
|------------|---------------------|

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

