

Starflam® PZ0062E

 Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Starflam PZ0062E is a halogen free and red phosphorous free, flame retardant, 30% glass reinforced PA6 for injection molded applications.

General

| | |
|------------------------|--|
| Material Status | • Commercial: Active |
| Availability | • Europe • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Additive | • Flame Retardant • Heat Stabilizer • Mold Release |
| Features | • Bromine Free • Halogen Free • Flame Retardant • Heat Stabilized |
| UL File Number | • E70062 |
| Appearance | • Natural Color |
| Forms | • Pellets |
| Processing Method | • Injection Molding |
| Resin ID | • PA6-GF30 FR |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|-------------|
| Density | 1.42 | g/cm ³ | ISO 1183 |
| Molding Shrinkage - Flow (73°F, 0.0787 in) | 0.30 | % | ISO 294-4 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (73°F) | 1.17E+6 | psi | ISO 527-1 |
| Tensile Stress (Break, 73°F) | 17400 | psi | ISO 527-2 |
| Tensile Strain (Break, 73°F) | 2.0 | % | ISO 527-2 |
| Flexural Modulus (73°F) | 1.06E+6 | psi | ISO 178 |
| Flexural Stress (73°F) | 23200 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength (73°F) | 3.8 | ft-lb/in ² | ISO 180/1A |
| Unnotched Izod Impact Strength (73°F) | 17 | ft-lb/in ² | ISO 180/1U |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 383 | °F | ISO 75-2/A |
| RTI Elec (0.031 in) | 149 | °F | UL 746B |
| RTI Imp (0.031 in) | 149 | °F | UL 746B |
| RTI Str (0.031 in) | 149 | °F | UL 746B |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.031 in) | V-2 | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 176 | °F |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 464 to 482 | °F |
| Middle Temperature | 482 to 500 | °F |
| Front Temperature | 482 to 518 | °F |
| Processing (Melt) Temp | 482 to 518 | °F |
| Mold Temperature | 122 to 194 | °F |

