

# ARKPA6160F

15% Glass fabric reinforcement material

Polyamide 6

## Product Description

ARKPA6160F is available in natural and custom colors, internal and external lubricants, UV stabilized and other modifications. Further information and details are available

| Material Basic Information                      |                                                 |                   |             |
|-------------------------------------------------|-------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement material                 | Glass fiber reinforcement, 15% filler by weight |                   |             |
| Appearance                                      | Available in natural and custom colors          |                   |             |
| Type                                            | Pellets                                         |                   |             |
| Processing Methods                              | Injection Molding                               |                   |             |
| Physical Properties                             | Rated Value                                     | Units             | Test Method |
| Density                                         | 1.22                                            | g/cm <sup>3</sup> | ASTM D792   |
| Ash Content                                     | 11 to 15                                        | %                 | ASTM D4218  |
| Mechanical Properties                           | Rated Value                                     | Units             | Test Method |
| Tensile Strength (23°C)                         | 103                                             | MPa               | ASTM D638   |
| Elongation Rate (Fracture,23°C)                 | 5.0                                             | %                 | ASTM D638   |
| Flexural Modulus                                | 4140                                            | MPa               | ASTM D790   |
| Flexural Strength                               | 162                                             | MPa               | ASTM D790   |
| Impact Properties                               | Rated Value                                     | Units             | Test Method |
| Izod Notched Impact Strength (23°C)             | 64                                              | J/m               | ASTM D256   |
| Thermal                                         | Rated Value                                     | Units             | Test Method |
| Heat Deflection Temperature (1.8MPa,Unannealed) | 193.0                                           | °C                | ASTM D648   |
| Melting Peak Temperature                        | 215                                             | °C                | ASTM D3418  |
| Injection                                       | Rated Value                                     | Units             |             |
| Recommended Maximum Moisture Content            | < 0.20                                          | %                 |             |
| Processing(Melt) Temp                           | 232-288                                         | °C                |             |
| Mold Temp                                       | 65.0-120                                        | °C                |             |