

Kingfa PA66-R0N Flame Retardant PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Features: Flame retardant High strength High temperature properties Good electric properties No blooming Applications: Injection molding Connectors Relay, bobbins, plugs Household appliance parts E & E parts Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PA66-R0N-Flame-Retardant-PA66.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|-----------|
| Specific Gravity | 1.25 g/cc @Temperature 23.0 Â°C | 1.25 g/cc @Temperature 73.4 Â°F | ASTM D792 |
| Water Absorption | 0.60 % @Temperature 23.0 Â°C, Time 86400 sec | 0.60 % @Temperature 73.4 Â°F, Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage | 0.013 - 0.015 cm/cm @Temperature 23.0 Â°C | 0.013 - 0.015 in/in @Temperature 73.4 Â°F | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|---|---------------------|
| Hardness, Rockwell R | 112 | 112 | ASTM D785 |
| Tensile Strength at Break | 50.0 MPa | 7250 psi | 10mm/min; ASTM D638 |
| Elongation at Break | >= 25 % | >= 25 % | 10mm/min; ASTM D638 |
| Flexural Strength | 74.0 MPa | 10700 psi | 2mm/min; ASTM D790 |
| Flexural Modulus | 2.15 GPa | 312 ksi | 2mm/min; ASTM D790 |
| Izod Impact, Notched | 0.850 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C | 1.59 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--|--------------------------------|--------------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 242 Â°C @Thickness 6.40 mm | 468 Â°F @Thickness 0.252 in | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 Â°C @Thickness 6.40 mm | 149 Â°F @Thickness 0.252 in | ASTM D648 |

| Thermal Properties | V-0 Metric | V-0 English | Comments |
|--------------------|---------------------|----------------------|----------|
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | V-0 | V-0 | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | V-0 | V-0 | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--|---|---------------------|
| Processing Temperature | <= 310 Â°C | <= 590 Â°F | |
| Rear Barrel Temperature | 255 - 275 Â°C | 491 - 527 Â°F | Start Point: 265Â°C |
| Middle Barrel Temperature | 260 - 290 Â°C | 500 - 554 Â°F | Start Point: 280Â°C |
| Front Barrel Temperature | 270 - 300 Â°C | 518 - 572 Â°F | Start Point: 285Â°C |
| Melt Temperature | 275 - 300 Â°C | 527 - 572 Â°F | Start Point: 285Â°C |
| Mold Temperature | 50.0 - 70.0 Â°C | 122 - 158 Â°F | Start Point: 60Â°C |
| Drying Temperature | 90.0 - 110 Â°C @Time 14400 - 21600 sec | 194 - 230 Â°F @Time 4.00 - 6.00 hour | Pre-dry |

| Descriptive Properties | Value | Comments |
|------------------------|------------------|----------|
| Injection Speed | Moderate to High | |

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