

Samyang Triloy® 230NH PC/ABS alloy, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Non-halogen
Characteristics: Impact resistant Heat resistant Flame retardant Dimensional stability Processability
Applications: Cellular phone Monitor housing Coffee maker Hair dryer O/A part
All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-230NH-PCABS-alloy-Flame-Retardant.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|--|-----------|
| Specific Gravity | 1.17 g/cc | 1.17 g/cc | ASTM D792 |
| Water Absorption | 0.20 % @Time 86400 sec | 0.20 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm @Thickness 3.00 mm | 0.0050 - 0.0070 in/in @Thickness 0.118 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 115 | 115 | ASTM D785 |
| Tensile Strength, Yield | 58.8 MPa | 8530 psi | ASTM D638 |
| Elongation at Break | 80 % | 80 % | ASTM D638 |
| Flexural Yield Strength | 78.5 MPa | 11400 psi | ASTM D790 |
| Flexural Modulus | 2.16 GPa | 313 ksi | ASTM D790 |
| Izod Impact, Unnotched | 4.41 J/cm @Thickness 3.17 mm | 8.27 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|-----------------------------|-----------|
| CTE, linear | 83.0 Åµm/m-Å°C | 46.1 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 93.0 Å°C | 199 Å°F | ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 1.59 mm | V-0 @Thickness 0.0625 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 9.00e+16 ohm-cm | 9.00e+16 ohm-cm | ASTM D257 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Dielectric Constant | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | ASTM D150 |
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | ASTM D149 |
| Dissipation Factor | 0.0090 | 0.0090 | ASTM D150 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Arc Resistance | 120 sec | 120 sec | ASTM D495 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------------|---------------|----------|
| Rear Barrel Temperature | 230 - 250 Â°C | 446 - 482 Â°F | |
| Middle Barrel Temperature | 220 - 240 Â°C | 428 - 464 Â°F | |
| Front Barrel Temperature | 210 - 230 Â°C | 410 - 446 Â°F | |
| Nozzle Temperature | 240 - 250 Â°C | 464 - 482 Â°F | |
| Melt Temperature | 240 - 250 Â°C | 464 - 482 Â°F | |
| Drying Temperature | 120 Â°C | 248 Â°F | |
| Dry Time | 3 - 5 hour | 3 - 5 hour | |
| Moisture Content | <= 0.020 % | <= 0.020 % | |
| Screw Speed | 30 - 80 rpm | 30 - 80 rpm | |

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