

Samyang Tramid[®] 215 Polyamide, High Impact

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Strong with excellent thermal resistance. Abrasion resistance, chemical resistance and oil resistance are excellent. 215 is a high impact grade. Applications: Automotive knob types, door handles and mirror housings Connectors Cable ties Harness clips Tubes Fasteners Castor wheels Hose clips Vacuum hose Hood stay Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tramid-215-Polyamide-High-Impact.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------|-----------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | ASTM D792 |
| Water Absorption | 1.4 % | 1.4 % | ASTM D570 |
| Linear Mold Shrinkage | 0.012 - 0.015 cm/cm | 0.012 - 0.015 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Tensile Strength | 53.9 MPa | 7820 psi | ASTM D638 |
| Elongation at Break | 5.0 % | 5.0 % | ASTM D638 |
| Flexural Yield Strength | 118 MPa | 17100 psi | ASTM D790 |
| Flexural Modulus | 6.47 GPa | 939 ksi | ASTM D790 |
| Izod Impact, Notched | 2.75 J/cm @Thickness 3.17 mm | 5.14 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------|---------|------------|
| Melting Point | 262 Â°C | 504 Â°F | ASTM D3418 |
| Deflection Temperature at 0.46 MPa (66 psi) | 214 Â°C | 417 Â°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 71.0 Â°C | 160 Â°F | ASTM D648 |

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