

Technical Data Sheet

Vitamide AK40N 0-0226



Polyamide 66

Product Description

Vitamide AK40N 0-0226 is a Polyamide 66 material and is typically used in Injection Molding applications. Features include: Fast Molding Cycle, and Nucleated.

| | |
|--------------------------|-------------------------------|
| Processing Method | Injection Molding |
| Attribute | Fast Molding Cycle; Nucleated |
| Additive | Nucleating Agent |
| Application | Lighting Fixtures |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|----------------|
| Physical | | | |
| Density | 1.14 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Stress at Yield | 90 | MPa | ISO 527-2 |
| Tensile Strain at Break | 20 | % | ISO 527-2 |
| Flexural Modulus | 3000 | MPa | ISO 178 |
| Flexural Stress | 125 | MPa | ISO 178 |
| Impact | | | |
| Notched Izod Impact Strength | 4 | kJ/m ² | ISO 180 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | >200 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 95 | °C | ISO 75-2/A |
| DSC Melting Point | 260 | °C | ISO 3146 |
| Electrical | | | |
| Dielectric Strength, (2.00 mm) | 27 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index (CTI), (Solution A) | 600 | V | IEC 60112 |
| Surface Resistivity | 1E+15 | ohm | IEC 60093 |
| Flammable | | | |
| Glow Wire Ignition Temperature | 750 | °C | IEC 60695-2-13 |
| UL Information | | | |
| Flame Rating | V-2 | | UL 94 |

| Injection Parameters | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time | 3.0 to 4.0 | hr |
| Drying Temperature | 80 | °C |
| Processing (Melt) Temp | 270 to 290 | °C |
| Mold Temperature | 60 to 100 | °C |