

EPLAMID 66 GFS 20 HS NC

Polyamide 66

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 66, reinforced with 20% of glass fiber, heat stabilized, lubricated for injection moulding.

Eplamid 66 GFS 20 HS is used in all sectors of industry, offering a perfect balance of thermal and mechanical properties.

This product is available in natural and in colours on request.

| General Information | | | | |
|--|---|-------------|-------------------|--------------|
| Filler / Reinforcement | Glass fiber reinforced material, 20% filler by weight | | | |
| Additive | heat stabilizer Lubricant | | | |
| Features | Thermal Stability Lubrication | | | |
| Appearance | Available colors Natural color | | | |
| Processing Method | Injection molding | | | |
| Physical | Dry | Conditioned | Unit | Test Method |
| Density (23°C) | 1.26 | -- | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | | ISO 294-4 |
| Vertical flow direction: 3.00mm | 1.1 | -- | % | ISO 294-4 |
| Flow direction: 3.00mm | 0.90 | -- | % | ISO 294-4 |
| Moisture Content | 0.20 | -- | % | ISO 15512 |
| Ash Content | 20 | -- | % | ISO 3451-4 |
| Hardness | Dry | Conditioned | Unit | Test Method |
| Durometer Hardness (Shore D, 23°C) | 87 | -- | | ISO 868 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus (23°C) | 7400 | 7100 | MPa | ISO 527-2/50 |
| Tensile Stress (Break, 23°C) | 140 | 125 | MPa | ISO 527-2/50 |
| Tensile Strain (Break, 23°C) | 4.0 | 10 | % | ISO 527-2/50 |
| Flexural Modulus ¹ (23°C) | 6900 | 6500 | MPa | ISO 178 |
| Flexural Stress ² (23°C) | 200 | 180 | MPa | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 9.0 | 11 | kJ/m ² | ISO 179/1eA |
| Notched Izod Impact (23°C) | 8.0 | 9.0 | kJ/m ² | ISO 180/1A |

| Thermal | Dry | Conditioned | Unit | Test Method |
|--|-----|-------------|-----------------------------|--------------|
| Heat Deflection Temperature ³ | | | | |
| 0.45 MPa, not annealed | 255 | -- | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 245 | -- | °C | ISO 75-2/A |
| Vicat Softening Temperature | 250 | -- | °C | ISO 306/B120 |
| Melting Temperature (DSC) | 250 | -- | °C | ISO 3146 |
| Flammability | Dry | Conditioned | Test Method | |
| Flame Rating (1.60 mm) | HB | -- | UL 94, IEC 60695-11-10, -20 | |

Additional Information

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TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH.

| Injection | Dry | Unit |
|------------------------|-----------|------|
| Drying Temperature | 80.0 | °C |
| Drying Time | 2.0 - 4.0 | hr |
| Processing (Melt) Temp | 280 | °C |

NOTE

1. 2.0 mm/min
2. 2.0 mm/min
3. 120°C/h

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