

Technical Data Sheet

Schulamid 612 GF 30 H

Polyamide 612
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber reinforced, Polyamide 612 compound, heat stabilized

General

- | | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Processing Method | • Injection Molding |

| Physical | Dry | Conditioned | Unit | Test Method |
|----------|------|-------------|-------------------|-------------|
| Density | 1.30 | -- | g/cm ³ | ISO 1183/A |

| | | | | |
|--|----|----|------------------------|----------|
| Melt Volume-Flow Rate (MVR) (245°C/5.0 Kg) | 20 | -- | cm ³ /10min | ISO 1133 |
|--|----|----|------------------------|----------|

| Mechanical | Dry | Conditioned | Unit | Test Method |
|---|-------------------|------------------|--------------|----------------|
| Tensile Modulus | 1.31E+6 (9000) | 957000 (6600) | psi (MPa) | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 20300 (140) | 14500 (100) | psi (MPa) | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.3 | 6.0 | % | ISO 527-2/1A/5 |
| Flexural Modulus ¹ (73°F (23°C)) | 1.09E+6 (7500) | -- | psi (MPa) | ISO 178 |
| Flexural Stress ¹ (4.0% Strain, 73°F (23°C)) | 31900 (220) | -- | psi (MPa) | ISO 178 |

| Impact | Dry | Conditioned | Unit | Test Method |
|----------------------------------|--------------|-------------|---|-------------|
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -40°F (-40°C) | 2.4 (5.0) | -- | ft·lb/in ² (kJ/m ²) | |
| -22°F (-30°C) | 2.9 (6.0) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 3.8 (8.0) | 4.8 (10) | ft·lb/in ² (kJ/m ²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| -40°F (-40°C) | 24 (50) | -- | ft·lb/in ² (kJ/m ²) | |
| -22°F (-30°C) | 24 (50) | -- | ft·lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 29 (60) | 31 (65) | ft·lb/in ² (kJ/m ²) | |

| Thermal | Dry | Conditioned | Unit | Test Method |
|-----------------------------------|--------------|-------------|------------|-------------|
| Deflection Temperature Under Load | | | | |
| 66 Psi (0.45 Mpa), Unannealed | 412 (211) | -- | °F (°C) | ISO 75-2/Bf |
| 264 Psi (1.8 Mpa), Unannealed | 376 (191) | -- | °F (°C) | ISO 75-2/Af |
| Vicat Softening Temperature | | | | |
| -- | 399 (204) | -- | °F (°C) | ISO 306/B50 |
| -- | 417 (214) | -- | °F (°C) | ISO 306/A50 |

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| Electrical | Dry | Conditioned | Unit | Test Method |
|------------------------------------|------------------|-------------|--------------------|----------------|
| Surface Resistivity | 2.3E+13 | -- | ohms | IEC 60093 |
| Volume Resistivity | 2.8E+14 | -- | ohms-cm | IEC 60093 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Burning Rate (0.0787 In (2.00 Mm)) | < 3.9 (< 100) | -- | in/min (mm/min) | ISO 3795 |
| Glow Wire Flammability Index | | | | IEC 60695-2-12 |
| 0.06 In (1.5 Mm) | 1250 (675) | -- | °F (°C) | |
| 0.12 In (3.0 Mm) | 1250 (675) | -- | °F (°C) | |
| Glow Wire Ignition Temperature | | | | IEC 60695-2-13 |
| 0.06 In (1.5 Mm) | 1290 (700) | -- | °F (°C) | |
| 0.12 In (3.0 Mm) | 1290 (700) | -- | °F (°C) | |

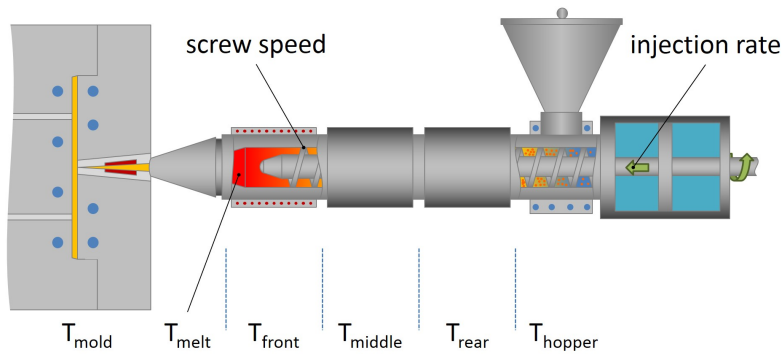
Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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| Injection | Dry (English) | Dry (SI) |
|------------------------|----------------|----------------|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 3.0 to 6.0 hr | 3.0 to 6.0 hr |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Processing (Melt) Temp | 464 to 536 °F | 240 to 280 °C |
| Mold Temperature | 122 to 194 °F | 50 to 90 °C |

Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

These are typical property values not to be construed as specification limits.