



Technical Data Sheet

Lucent Pa G6-35HQL

Polyamide 6
 LyondellBasell Industries
 Engineering Plastics

Product Description

35% Glass Fiber Reinforced, Heat Stabilized, Lubricated, UV Stable, Nylon 6

General

- | | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 35% Filler by Weight |
| Appearance | • Black |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------|-------------------------|--------------------|-------------|
|----------|-------------------------|--------------------|-------------|

| | | | |
|----------------------------|------|------------------------|-----------|
| Density / Specific Gravity | 1.38 | 1.38 g/cm ³ | ASTM D792 |
|----------------------------|------|------------------------|-----------|

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------|-------------------------|--------------------|-------------|
|------------|-------------------------|--------------------|-------------|

| | | | |
|--------------------------|-----------|---------|-----------|
| Tensile Strength (Yield) | 19000 psi | 131 MPa | ASTM D638 |
|--------------------------|-----------|---------|-----------|

| | | | |
|------------------|------------|----------|-----------|
| Flexural Modulus | 900000 psi | 6210 MPa | ASTM D790 |
|------------------|------------|----------|-----------|

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------|-------------------------|--------------------|-------------|
|--------|-------------------------|--------------------|-------------|

| | | | |
|---------------------|--|--|-----------|
| Notched Izod Impact | | | ASTM D256 |
|---------------------|--|--|-----------|

| | | | |
|---------------------------------|--------------|--------|--|
| 73°F (23°C), 0.125 In (3.18 Mm) | 1.2 ft·lb/in | 64 J/m | |
|---------------------------------|--------------|--------|--|

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------|-------------------------|--------------------|-------------|
|---------|-------------------------|--------------------|-------------|

| | | | |
|-----------------------------------|--|--|-----------|
| Deflection Temperature Under Load | | | ASTM D648 |
|-----------------------------------|--|--|-----------|

| | | | |
|-------------------------------|--------|--------|--|
| 264 Psi (1.8 Mpa), Unannealed | 400 °F | 204 °C | |
|-------------------------------|--------|--------|--|

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| Injection | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature | 180 °F | 82 °C |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Processing (Melt) Temp | 480 to 520 °F | 249 to 271 °C |
| Mold Temperature | 180 to 200 °F | 82 to 93 °C |

Notes

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