

TECHNICAL DATA SHEET

DOMONYL 1832R15H BK-1

DOMONYL1832R15H BK-1 is a polyamide 6, reinforced with 15% of glass fibre, heat stabilized, for injection moulding.. For America availability only

General

| | | |
|-----------------------|-----------------------|----------------------|
| Certifications | RoHS | EC 1907/2006 (REACH) |
| Polymer type | PA6 | |
| Feature | heat-aging stabilized | |
| Colors available | black | |
| Forms | pellets | |
| Processing technology | injection moulding | |

Product identification

| | |
|-----------------------|---------------------|
| ISO 1043 abbreviation | PA6-GF15 |
| ISO 16396 designation | PA6,GF15,MH,S14-060 |

| Condition | Standard | Unit | Value |
|-----------|----------|------|-------|
|-----------|----------|------|-------|

Physical properties

| Condition | Standard | Unit | Value |
|-----------------------------|-----------------|-------------------|-----------|
| Density | ISO 1183 | g/cm ³ | 1.26 |
| Molding shrinkage, parallel | ISO 294-4, 2577 | % | 0.3 - 0.4 |
| Molding shrinkage, normal | ISO 294-4, 2577 | % | 0.7 - 0.8 |

| | Condition | Standard | Unit | Value |
|---------------------------------------|-----------|--------------|-------------------|---------------------|
| Mechanical properties | | | | dam / cond.* |
| Tensile modulus | 1 mm/min | ISO 527-1/-2 | MPa | 6700 / 3200 |
| Flexural modulus, ISO 178 | 2 mm/min | ISO 178 | MPa | 5500 / - |
| Flexural strength, ISO 178 | 2 mm/min | ISO 178 | MPa | 190 / - |
| Charpy impact strength, +23°C | +23°C | ISO 179/1eU | kJ/m ² | 35 / 95 |
| Charpy notched impact strength, +23°C | +23°C | ISO 179/1eA | kJ/m ² | 3 / 12 |

*: **conditioned according to ISO 1110**

| | Condition | Standard | Unit | Value |
|--|-----------|-------------|------|-------|
| Thermal properties | | | | |
| Melting temperature, 10°C/min | | ISO 11357-1 | °C | 221 |
| Temp. of deflection under load, 0.45 MPa | 0.45 MPa | ISO 75 | °C | 220 |
| Temp. of deflection under load, 1.80 MPa | 1.80 MPa | ISO 75 | °C | 200 |

| | Condition | Standard | Unit | Value |
|-------------------------------------|-----------|-----------|------|-------------|
| Burning behaviour | | | | |
| Burning rate, FMVSS, Thickness 1 mm | | FMVSS 302 | | < 100mm/min |

| | |
|------------------------------|---|
| Processing conditions | |
| Drying temperature/time | 75-85°C / 2-4h (with dew point of dried air < -30 °C) |
| Suggested max moisture | 0.2 % |