

# AKROMID® B3 GF 30 1 black (2485)

Polyamide 6  
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 1 black (2485) is a 30% glass fibre reinforced, heat stabilised polyamide 6 with high rigidity and strength  
Applications are mainly components in mechanical engineering and in the automotive industry

| General Information                  |            |                                  |                   |                 |
|--------------------------------------|------------|----------------------------------|-------------------|-----------------|
| UL YellowCard                        |            | E148915-101075626                |                   |                 |
| Filler / Reinforcement               |            | Glass Fiber,30% Filler by Weight |                   |                 |
| Additive                             |            | Heat Stabilizer                  |                   |                 |
| Features                             |            | Heat Stabilized                  |                   |                 |
|                                      |            | High Rigidity                    |                   |                 |
|                                      |            | High Strength                    |                   |                 |
| Uses                                 |            | Engineered Applications          |                   |                 |
| Appearance                           |            | Black                            |                   |                 |
| Resin ID (ISO 1043)                  |            | PA6 GF30                         |                   |                 |
| Physical                             | Dry        | Conditioned                      | Unit              | Test Method     |
| Density (23°C)                       | 1.36       | --                               | g/cm <sup>3</sup> | ISO 1183        |
| Spiral Flow                          | 66.0       | --                               | cm                | Internal Method |
| Molding Shrinkage                    |            |                                  |                   | ISO 294-4       |
| Across Flow                          | 0.80       | --                               | %                 |                 |
| Flow                                 | 0.10       | --                               | %                 |                 |
| Water Absorption (Saturation, 23°C)  | 6.3 to 6.9 | --                               | %                 | ISO 62          |
| Humidity Absorption - 62% RH (70°C)  | 2.1 to 2.3 | --                               | %                 | ISO 1110        |
| Reinforcement Content                | 30         | --                               | %                 | ISO 1172        |
| Hardness                             | Dry        | Conditioned                      | Unit              | Test Method     |
| Ball Indentation Hardness (H 961/30) | 230        | --                               | MPa               | ISO 2039-1      |
| Mechanical                           | Dry        | Conditioned                      | Unit              | Test Method     |
| Tensile Modulus                      | 10300      | 6200                             | MPa               | ISO 527-2/1     |
| Tensile Stress (Break)               | 185        | 110                              | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)               | 3.0        | 5.5                              | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>        | 8500       | --                               | MPa               | ISO 178         |
| Flexural Stress <sup>2</sup>         | 270        | --                               | MPa               | ISO 178         |
| Impact                               | Dry        | Conditioned                      | Unit              | Test Method     |
| Charpy Notched Impact Strength       |            |                                  |                   | ISO 179/1eA     |
| -30°C                                | 12         | --                               | kJ/m <sup>2</sup> |                 |

|                                         |               |             |                   |                |
|-----------------------------------------|---------------|-------------|-------------------|----------------|
| 23°C                                    | 13            | 18          | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength        |               |             |                   | ISO 179/1eU    |
| -30°C                                   | 85            | --          | kJ/m <sup>2</sup> |                |
| 23°C                                    | 95            | 110         | kJ/m <sup>2</sup> |                |
| Thermal                                 | Dry           | Conditioned | Unit              | Test Method    |
| Heat Deflection Temperature             |               |             |                   |                |
| 0.45 MPa, Unannealed                    | 220           | --          | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 210           | --          | °C                | ISO 75-2/A     |
| 8.0 MPa, Unannealed                     | 150           | --          | °C                | ISO 75-2/C     |
| Melting Temperature <sup>3</sup>        | 220           | --          | °C                | DIN EN 11357-1 |
| CLTE                                    |               |             |                   | ISO 11359-2    |
| Flow : 23 to 80°C                       | 1.6E-5        | --          | cm/cm/°C          |                |
| Transverse : 23 to 80°C                 | 9.5E-5        | --          | cm/cm/°C          |                |
| Electrical                              | Dry           | Conditioned | Unit              | Test Method    |
| Surface Resistivity                     | 1.0E+12       | 1.0E+10     | ohms              | IEC 60093      |
| Volume Resistivity                      | 1.0E+13       | 1.0E+10     | ohms·cm           | IEC 60093      |
| Comparative Tracking Index (Solution A) | 600           | --          | V                 | IEC 60112      |
| Flammability                            | Dry           | Conditioned | Unit              | Test Method    |
| Burning Rate <sup>4</sup> (1.00 mm)     | < 100         | --          | mm/min            | FMVSS 302      |
| Flame Rating (0.800 mm)                 | HB            | --          |                   | UL 94          |
| Glow Wire Flammability Index (0.800 mm) | 650           | --          | °C                | IEC 60695-2-12 |
| NOTE                                    |               |             |                   |                |
| 1.                                      | 2.0 mm/min    |             |                   |                |
| 2.                                      | 2.0 mm/min    |             |                   |                |
| 3.                                      | 10 K/min, DSC |             |                   |                |
| 4.                                      | >1 mm         |             |                   |                |

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