

# Heramid® I/BGV 15c Black

Polyamide 6

Radici Plastics

## Message:

Heramid® I/BGV 15c Black is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary attribute of Heramid® I/BGV 15c Black: Flame Rated.

| General Information                                                   |            |                                   |                   |                |
|-----------------------------------------------------------------------|------------|-----------------------------------|-------------------|----------------|
| Filler / Reinforcement                                                |            | Glass Fiber, 15% Filler by Weight |                   |                |
| Features                                                              |            | Impact Modified                   |                   |                |
| Appearance                                                            |            | Black                             |                   |                |
| Resin ID (ISO 1043)                                                   |            | PA6-I GF15                        |                   |                |
| Physical                                                              | Dry        | Conditioned                       | Unit              | Test Method    |
| Density                                                               | 1.22       | --                                | g/cm <sup>3</sup> | ISO 1183       |
| Water Absorption <sup>1</sup><br>(Equilibrium, 23°C, 1.00 mm, 50% RH) | 2.3 to 2.7 | --                                | %                 | ISO 62         |
| Mechanical                                                            | Dry        | Conditioned                       | Unit              | Test Method    |
| Tensile Modulus                                                       | 5700       | 3200                              | MPa               | ISO 527-2/1A/1 |
| Tensile Stress (Yield)                                                | 115        | 60.0                              | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break)                                                | 4.0        | 9.0                               | %                 | ISO 527-2/1A/5 |
| Flexural Modulus <sup>2</sup>                                         | 4900       | 2500                              | MPa               | ISO 178        |
| Flexural Stress <sup>3</sup>                                          | 165        | 95.0                              | MPa               | ISO 178        |
| Impact                                                                | Dry        | Conditioned                       | Unit              | Test Method    |
| Charpy Notched Impact Strength                                        |            |                                   |                   | ISO 179/1eA    |
| -30°C                                                                 | 6.0        | 10                                | kJ/m <sup>2</sup> |                |
| 23°C                                                                  | 7.0        | 13                                | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength                                      |            |                                   |                   | ISO 179/1eU    |
| -30°C                                                                 | 50         | --                                | kJ/m <sup>2</sup> |                |
| 23°C                                                                  | 65         | 100                               | kJ/m <sup>2</sup> |                |
| Thermal                                                               | Dry        | Conditioned                       | Unit              | Test Method    |
| Heat Deflection Temperature                                           |            |                                   |                   |                |
| 0.45 MPa, Unannealed                                                  | 200        | --                                | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                                                   | 170        | --                                | °C                | ISO 75-2/A     |
| Melting Temperature <sup>4</sup>                                      | 220        | --                                | °C                | ISO 3146       |
| Flammability                                                          | Dry        | Conditioned                       |                   | Test Method    |
| Flame Rating                                                          | HB         | --                                |                   | UL 94          |
| NOTE                                                                  |            |                                   |                   |                |
| 1.                                                                    | Saturation |                                   |                   |                |

|    |            |
|----|------------|
| 2. | 2.0 mm/min |
| 3. | 2.0 mm/min |
| 4. | 10°C/min   |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

