

# Keyflex® BT 7069G

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

## Message:

Applications:

Cable connecting housing, etc.

Description:

Glass Fiber Reinforced, High Modulus

| General Information                                      |                                 |                   |             |
|----------------------------------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement                                   | Glass fiber reinforced material |                   |             |
| Uses                                                     | Wire and cable applications     |                   |             |
|                                                          | Shell                           |                   |             |
| Processing Method                                        | Injection molding               |                   |             |
| Physical                                                 | Nominal Value                   | Unit              | Test Method |
| Specific Gravity                                         | 1.43                            | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 9.0                             | g/10 min          | ASTM D1238  |
| Water Absorption (23°C, 24 hr)                           | 0.30                            | %                 | ASTM D570   |
| Hardness                                                 | Nominal Value                   | Unit              | Test Method |
| Durometer Hardness (Shore D)                             | 71                              |                   | ASTM D2240  |
| Mechanical                                               | Nominal Value                   | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Break, 2.00 mm)           | 58.8                            | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 2.00 mm)         | 7.0                             | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (6.40 mm)                  | 2940                            | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (6.40 mm)                 | 88.3                            | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact                                      |                                 |                   | ASTM D256   |
| -40°C, 6.40 mm                                           | 8.0                             | J/m               | ASTM D256   |
| 23°C, 6.40 mm                                            | 170                             | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value                   | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 210                             | °C                | ASTM D648   |
| Peak Melting Temperature                                 | 219                             | °C                | ASTM D3418  |
| Injection                                                | Nominal Value                   | Unit              |             |
| Drying Temperature                                       | 90 - 100                        | °C                |             |
| Drying Time                                              | 3.0 - 4.0                       | hr                |             |
| Suggested Max Moisture                                   | 0.10                            | %                 |             |
| Rear Temperature                                         | 220 - 240                       | °C                |             |
| Middle Temperature                                       | 225 - 245                       | °C                |             |
| Front Temperature                                        | 230 - 250                       | °C                |             |

|                        |           |    |
|------------------------|-----------|----|
| Nozzle Temperature     | 230 - 250 | °C |
| Processing (Melt) Temp | 220 - 250 | °C |
| Mold Temperature       | 60 - 80   | °C |

| NOTE |           |  |
|------|-----------|--|
| 1.   | 50 mm/min |  |
| 2.   | 50 mm/min |  |
| 3.   | 15 mm/min |  |
| 4.   | 15 mm/min |  |

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## 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



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