

# Kumho ABS H2938Z

Acrylonitrile Butadiene Styrene  
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: Low gloss, Heat resistance  
Applications: Injected paroducts demanding for heat resistance and low gloss

| General Information                   |                      |                   |                       |
|---------------------------------------|----------------------|-------------------|-----------------------|
| Features                              | High Heat Resistance |                   |                       |
|                                       | Low Gloss            |                   |                       |
| UL File Number                        | E65424               |                   |                       |
| Processing Method                     | Injection Molding    |                   |                       |
| Physical                              | Nominal Value        | Unit              | Test Method           |
| Specific Gravity                      | 1.05                 | g/cm <sup>3</sup> | ASTM D792, ISO 1183   |
| Melt Mass-Flow Rate (MFR)             |                      |                   |                       |
| 200°C/21.6 kg                         | 20                   | g/10 min          | ASTM D1238            |
| 220°C/10.0 kg                         | 13                   | g/10 min          | ASTM D1238, ISO 1133  |
| Molding Shrinkage                     |                      |                   |                       |
| Flow                                  | 0.50 to 0.80         | %                 | ASTM D955             |
| --                                    | 0.50 to 0.80         | %                 | ISO 294-4             |
| Hardness                              | Nominal Value        | Unit              | Test Method           |
| Rockwell Hardness (R-Scale)           | 107                  |                   | ASTM D785, ISO 2039-2 |
| Mechanical                            | Nominal Value        | Unit              | Test Method           |
| Tensile Strength                      |                      |                   |                       |
| Yield                                 | 44.1                 | MPa               | ASTM D638             |
| Yield                                 | 43.0                 | MPa               | ISO 527-2             |
| Tensile Elongation                    |                      |                   |                       |
| Yield                                 | 20                   | %                 | ASTM D638             |
| Break                                 | 24                   | %                 | ISO 527-2             |
| Flexural Modulus                      |                      |                   |                       |
| --                                    | 2260                 | MPa               | ASTM D790             |
| --                                    | 2350                 | MPa               | ISO 178               |
| Flexural Stress                       |                      |                   |                       |
| --                                    | 69.0                 | MPa               | ISO 178               |
| Yield                                 | 65.7                 | MPa               | ASTM D790             |
| Impact                                | Nominal Value        | Unit              | Test Method           |
| Charpy Notched Impact Strength (23°C) | 16                   | kJ/m <sup>2</sup> | ISO 179/1eA           |
| Notched Izod Impact                   |                      |                   |                       |
| 23°C, 3.20 mm                         | 180                  | J/m               | ASTM D256             |

| 23°C, 6.40 mm               | 150           | J/m               | ASTM D256                    |
|-----------------------------|---------------|-------------------|------------------------------|
| 23°C                        | 15            | kJ/m <sup>2</sup> | ISO 180/1A                   |
| Thermal                     | Nominal Value | Unit              | Test Method                  |
| Heat Deflection Temperature |               |                   |                              |
| 0.45 MPa, Unannealed        | 98.0          | °C                | ISO 75-2/B                   |
| 1.8 MPa, Unannealed         | 92.0          | °C                | ASTM D648                    |
| 1.8 MPa, Unannealed         | 87.0          | °C                | ISO 75-2/A                   |
| Vicat Softening Temperature | 102           | °C                | ISO 306/B50, ASTM D1525<br>1 |
| Flammability                | Nominal Value |                   | Test Method                  |
| Flame Rating (1.60 mm)      | HB            |                   | UL 94                        |
| NOTE                        |               |                   |                              |

1. Rate A (50°C/h), Loading 2 (50 N)

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

