

# Kumho ABS H2938DS

Acrylonitrile Butadiene Styrene  
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: AL sputtering, Heat resistance  
Applications: Automobile parts, Rear lamp housings

| General Information                   |                           |                   |                       |
|---------------------------------------|---------------------------|-------------------|-----------------------|
| Features                              | Medium Heat Resistance    |                   |                       |
| Uses                                  | Automotive Applications   |                   |                       |
|                                       | Automotive Exterior Parts |                   |                       |
| 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                         | 18                        | g/10 min          | ASTM D1238            |
| 220°C/10.0 kg                         | 12                        | 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                                 | 47.1                      | MPa               | ASTM D638             |
| Yield                                 | 45.0                      | MPa               | ISO 527-2             |
| Tensile Elongation                    |                           |                   |                       |
| Yield                                 | 20                        | %                 | ASTM D638             |
| Break                                 | 24                        | %                 | ISO 527-2             |
| Flexural Modulus                      |                           |                   |                       |
| --                                    | 2210                      | MPa               | ASTM D790             |
| --                                    | 2300                      | MPa               | ISO 178               |
| Flexural Stress                       |                           |                   |                       |
| --                                    | 69.0                      | MPa               | ISO 178               |
| Yield                                 | 63.7                      | MPa               | ASTM D790             |
| Impact                                | Nominal Value             | Unit              | Test Method           |
| Charpy Notched Impact Strength (23°C) | 21                        | kJ/m <sup>2</sup> | ISO 179/1eA           |
| Notched Izod Impact                   |                           |                   |                       |
| 23°C, 3.20 mm                         | 250                       | J/m               | ASTM D256             |
| 23°C, 6.40 mm                         | 210                       | J/m               | ASTM D256             |

|                             |                                   |                   |                              |
|-----------------------------|-----------------------------------|-------------------|------------------------------|
| 23°C                        | 20                                | kJ/m <sup>2</sup> | ISO 180/1A                   |
| Thermal                     | Nominal Value                     | Unit              | Test Method                  |
| Heat Deflection Temperature |                                   |                   |                              |
| 0.45 MPa, Unannealed        | 102                               | °C                | ISO 75-2/B                   |
| 1.8 MPa, Unannealed         | 95.0                              | °C                | ASTM D648                    |
| 1.8 MPa, Unannealed         | 90.0                              | °C                | ISO 75-2/A                   |
| Vicat Softening Temperature | 105                               | °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) |                   |                              |

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