

# Kumho EP HAC 8270

Polycarbonate + ABS

Korea Kumho Petrochemical Co., Ltd.

Message:

Features: high impact, High Heat resistant  
Applications: Automotive Instrumet panel, Center panel

| General Information                                     |                                   |                   |                         |
|---------------------------------------------------------|-----------------------------------|-------------------|-------------------------|
| Features                                                | High Heat Resistance              |                   |                         |
|                                                         | High Impact Resistance            |                   |                         |
| Uses                                                    | Automotive Applications           |                   |                         |
|                                                         | Automotive Instrument Panel       |                   |                         |
|                                                         | Automotive Interior Parts         |                   |                         |
| RoHS Compliance                                         | RoHS Compliant                    |                   |                         |
| UL File Number                                          | E65424                            |                   |                         |
| Physical                                                | Nominal Value                     | Unit              | Test Method             |
| Specific Gravity                                        | 1.14                              | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (230°C/21.6 kg)               | 50                                | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.50 to 0.70                      | %                 | ASTM D955               |
| Hardness                                                | Nominal Value                     | Unit              | Test Method             |
| Rockwell Hardness (R-Scale)                             | 115                               |                   | ASTM D785               |
| Mechanical                                              | Nominal Value                     | Unit              | Test Method             |
| Tensile Strength (Yield)                                | 53.9                              | MPa               | ASTM D638               |
| Tensile Elongation (Yield)                              | 110                               | %                 | ASTM D638               |
| Flexural Modulus                                        | 2160                              | MPa               | ASTM D790               |
| Flexural Strength (Yield)                               | 76.5                              | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value                     | Unit              | Test Method             |
| Notched Izod Impact (23°C, 6.40 mm)                     | 490                               | J/m               | ASTM D256               |
| Thermal                                                 | Nominal Value                     | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 112                               | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 125                               | °C                | ASTM D1525 <sup>1</sup> |
| 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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