

# Kumho PS HI 425EH

High Impact Polystyrene

Korea Kumho Petrochemical Co., Ltd.

Message:

Features: High Impact Strength, Plating

Applications: Automotive parts (Panel, Mesh bumpers), Helmets, Plating parts, etc.

| General Information                                     |                                 |                   |                         |
|---------------------------------------------------------|---------------------------------|-------------------|-------------------------|
| Features                                                | Impact resistance, high         |                   |                         |
| Uses                                                    | Car anti-collision bar          |                   |                         |
|                                                         | Application in Automobile Field |                   |                         |
|                                                         | Automotive exterior parts       |                   |                         |
| RoHS Compliance                                         | RoHS compliance                 |                   |                         |
| UL File Number                                          | E654224                         |                   |                         |
| Physical                                                | Nominal Value                   | Unit              | Test Method             |
| Specific Gravity                                        | 1.03                            | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)                | 4.5                             | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.30 - 0.60                     | %                 | ASTM D955               |
| Water Absorption (Equilibrium)                          | 0.030                           | %                 | ASTM D570               |
| Hardness                                                | Nominal Value                   | Unit              | Test Method             |
| Rockwell Hardness (L-Scale)                             | 60                              |                   | ASTM D785               |
| Mechanical                                              | Nominal Value                   | Unit              | Test Method             |
| Tensile Strength (Yield)                                | 23.5                            | MPa               | ASTM D638               |
| Tensile Elongation (Yield)                              | 60                              | %                 | ASTM D638               |
| Flexural Modulus                                        | 1720                            | MPa               | ASTM D790               |
| Flexural Strength (Yield)                               | 29.4                            | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value                   | Unit              | Test Method             |
| Notched Izod Impact (23°C, 3.20 mm)                     | 93                              | J/m               | ASTM D256               |
| Thermal                                                 | Nominal Value                   | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 74.0                            | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 95.0                            | °C                | ASTM D1525 <sup>1</sup> |
| Flammability                                            | Nominal Value                   | Test Method       |                         |
| Flame Rating (1.60 mm)                                  | HB                              | UL 94             |                         |
| Injection                                               | Nominal Value                   | Unit              |                         |
| Drying Temperature                                      | 60.0 - 70.0                     | °C                |                         |
| Drying Time                                             | 1.0 - 3.0                       | hr                |                         |
| Rear Temperature                                        | 170 - 190                       | °C                |                         |
| Middle Temperature                                      | 180 - 200                       | °C                |                         |
| Front Temperature                                       | 190 - 210                       | °C                |                         |

|                                         |                          |      |
|-----------------------------------------|--------------------------|------|
| Nozzle Temperature                      | 190 - 220                | °C   |
| Mold Temperature                        | 40.0 - 60.0              | °C   |
| Injection instructions                  |                          |      |
| Injection Hopper Throat: 45 °C          |                          |      |
| Extrusion                               | Nominal Value            | Unit |
| Cylinder Zone 1 Temp.                   | 170 - 190                | °C   |
| Cylinder Zone 2 Temp.                   | 180 - 200                | °C   |
| Cylinder Zone 3 Temp.                   | 180 - 210                | °C   |
| Cylinder Zone 4 Temp.                   | 190 - 220                | °C   |
| Cylinder Zone 5 Temp.                   | 200 - 220                | °C   |
| Adapter Temperature                     | 200                      | °C   |
| Die Temperature                         | 190 - 210                | °C   |
| Extrusion instructions                  |                          |      |
| Extrusion Screen Changer: 190 to 210 °C |                          |      |
| NOTE                                    |                          |      |
| 1.                                      | 速率 A (50°C/h), 压力1 (10N) |      |

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



WECHAT