

# POLYPRO® HJ4006

Polypropylene Homopolymer  
YUHWHA Korea Petrochemical Ind. Co., Ltd.

Message:

POLYPRO® HJ4006 is a Polypropylene Homopolymer (PP Homopolymer) material. It is available in Asia Pacific for injection molding.

Important attributes of POLYPRO® HJ4006 are:

Flame Rated  
RoHS Compliant  
Good Processability  
Heat Resistant  
High Stiffness

Typical applications include:

Appliances  
Automotive  
Food Contact Applications  
Housings

| General Information                       |                                      |                   |                 |
|---|--------------------------------------|-------------------|-----------------|
| Features                                  | Good Impact Resistance               |                   |                 |
|   | Good Processability                  |                   |                 |
|   | High Heat Resistance                 |                   |                 |
|   | High Isotactic                       |                   |                 |
|   | High Stiffness                       |                   |                 |
|   | Homopolymer                          |                   |                 |
|   | Scratch Resistant                    |                   |                 |
| Uses                                      | Appliances                           |                   |                 |
|   | Automotive Applications              |                   |                 |
|   | Electrical Housing                   |                   |                 |
| Agency Ratings                            | FDA Food Contact, Unspecified Rating |                   |                 |
| RoHS Compliance                           | RoHS Compliant                       |                   |                 |
| Forms                                     | Pellets                              |                   |                 |
| Processing Method                         | Injection Molding                    |                   |                 |
| Physical                                  | Nominal Value                        | Unit              | Test Method     |
| Density                                   | 0.910                                | g/cm <sup>3</sup> | ASTM D1505      |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 6.0                                  | g/10 min          | ASTM D1238      |
| Molding Shrinkage - Flow                  | 1.4 to 1.8                           | %                 | Internal Method |
| Hardness                                  | Nominal Value                        | Unit              | Test Method     |
| Rockwell Hardness (R-Scale)               | 110                                  |                   | ASTM D785       |
| Mechanical                                | Nominal Value                        | Unit              | Test Method     |
| Tensile Strength (Yield)                  | 41.2                                 | MPa               | ASTM D638       |
| Tensile Elongation (Break)                | 50                                   | %                 | ASTM D638       |

|   |               |      |             |
|---|---------------|------|-------------|
| Flexural Modulus  | 2060          | MPa  | ASTM D790   |
| Impact  | Nominal Value | Unit | Test Method |
| Notched Izod Impact                                     | 39            | J/m  | ASTM D256   |
| Thermal   | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 140           | °C   | ASTM D648   |
| Vicat Softening Temperature                             | 156           | °C   | ASTM D1525  |
| Peak Melting Temperature                                | 168           | °C   | ASTM D3418  |
| Flammability  | Nominal Value |      | Test Method |
| Flame Rating (All Colors)                               | HB            |      | UL 94       |

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