

# Daelim Po1y® PH-460

Polypropylene

DAELIM INDUSTRIAL CO., LTD.

Message:

Product Description:  
DAELIM POLY PH-460 is the polypropylene homopolymer manufactured by DAELIM under the license of MONTELL using the Spheripol process.  
DAELIM POLY PH-460 is a homopolymer particularly suitable for injection molding of houseware articles, toys, packaging, closures and medical items.

| General Information                                      |                                      |                   |             |
|--|--------------------------------------|-------------------|-------------|
| Features   | Good Color Stability                 |                   |             |
|  | Good Processability                  |                   |             |
|  | Good Stiffness                       |                   |             |
|  | Good Toughness                       |                   |             |
|  | High Gloss                           |                   |             |
|  | Low Warpage                          |                   |             |
| Uses   | Closures                             |                   |             |
|  | Household Goods                      |                   |             |
|  | Medical/Healthcare Applications      |                   |             |
|  | Packaging                            |                   |             |
|  | Toys                                 |                   |             |
| Agency Ratings   | FDA Food Contact, Unspecified Rating |                   |             |
| 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)                | 12                                   | g/10 min          | ASTM D1238  |
| Hardness   | Nominal Value                        | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                              | 103                                  |                   | ASTM D785   |
| Mechanical   | Nominal Value                        | Unit              | Test Method |
| Tensile Strength (Yield)                                 | 35.3                                 | MPa               | ASTM D638   |
| Tensile Elongation (Break)                               | 500                                  | %                 | ASTM D638   |
| Flexural Modulus   | 1570                                 | MPa               | ASTM D790   |
| Impact   | Nominal Value                        | Unit              | Test Method |
| Notched Izod Impact (23°C)                               | 34                                   | J/m               | ASTM D256   |
| Thermal  | Nominal Value                        | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 106                                  | °C                | ASTM D648   |
| Vicat Softening Temperature                              | 154                                  | °C                | ASTM D1525  |

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