

## Homopolymer Polypropylene



# PHJ0501

EVALENE<sup>®</sup> PHJ0501 Homopolymer Polypropylene resin is designed for high rigidity injection molding applications.

**EVALENE<sup>®</sup> PHJ0501** is designed specifically for use in a broad range of injection molding applications that require very high rigidity and excellent dimensional stability. This resin is fully-formulated with additives which enable cycle time improvement. It offers good mold release characteristics for better overall processability.

### FEATURES

- Medium Flow
- Excellent rigidity and stiffness
- Exceptional stacking strength
- Good cycle times
- Meets Philippine FDA food contact requirements
- Halal-certified

### TYPICAL APPLICATIONS

- Furniture
- Housewares
- Food and General-purpose Containers

## Product Properties

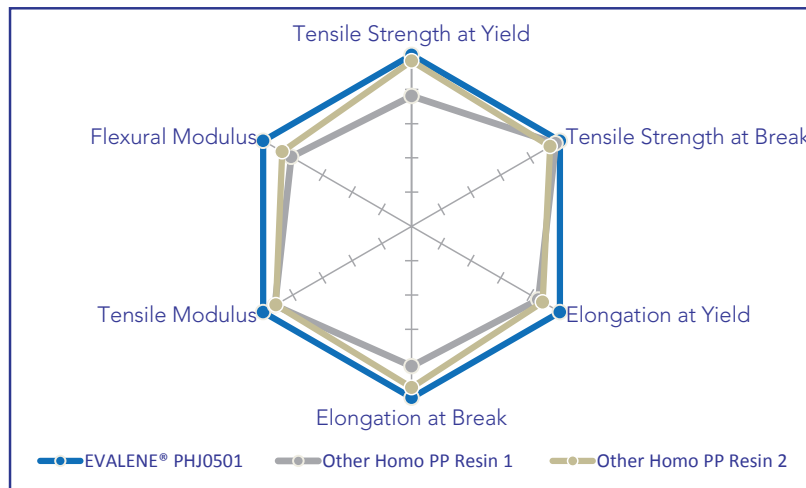
| Property                     | Test Condition       | Standard   | Typical Value | Unit     |
|------------------------------|----------------------|------------|---------------|----------|
| Melt Flow                    | 230°C / 2.16 kg      | ASTM D1238 | 5.0           | g/10 min |
| Tensile Strength at Yield*   | 50 mm/min            | ASTM D638  | 40            | MPa      |
| Elongation at Yield*         | 50 mm/min            | ASTM D638  | 13            | %        |
| Tensile Strength at Break*   | 50 mm/min            | ASTM D638  | 20            | MPa      |
| Elongation at Break*         | 50 mm/min            | ASTM D638  | 83            | %        |
| Tensile Modulus*             | 1% Secant, 5 mm/min  | ASTM D638  | 2468          | MPa      |
| Flexural Modulus             | 1% Secant 1.3 mm/min | ASTM D790A | 1543          | MPa      |
| Notched Izod Impact Strength | 23°C                 | ASTM D256  | 15            | J/m      |
| Heat Deflection Temperature  | 0.455 MPa            | ASTM D648  | 128           | °C       |
| Rockwell Hardness            | R scale              | ASTM D785  | 108           |          |

\*Tensile properties tested using Type I injection molded specimens

### Typical Processing Conditions:

Melt temperature: 180 - 220 °C  
Mold temperature: 20 - 40 °C

### Mechanical Property Performance: EVALENE<sup>®</sup> PHJ0501 and other homopolymer PP material in the market



**EVALENE<sup>®</sup> PHJ0501** delivers superior overall mechanical properties versus other medium flow homopolymer PP injection molding grades. It enables customers to achieve better performance in the final product.

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