

Homopolymer Polypropylene



PHJ0501

EVALENE[®] PHJ0501 Homopolymer Polypropylene resin is designed for high rigidity injection molding applications.

EVALENE[®] 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

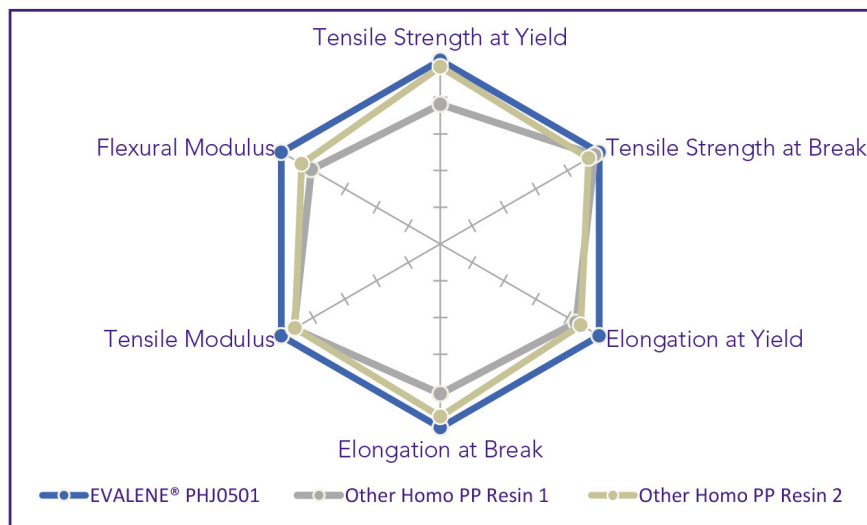
| Property | Test Condition | Standard | Typical Value | Unit |
|------------------------------|----------------------|------------|---------------|----------|
| Melt Flow | 230°C / 2.16 kg | ASTM D1238 | 5.0 | g/10 min |
| Tensile Strength at Yield* | 50 mm/min | ASTM D638 | 40 | MPa |
| Elongation 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® PHJ0501 and other homopolymer PP material in the market



EVALENE® 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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