

Homopolymer Polypropylene



PHJ4501

EVALENE® PHJ4501 Homopolymer Polypropylene resin is designed for thinwall injection molding applications.

EVALENE® PHJ4501 is a controlled-rheology resin with narrow molecular weight distribution and is intended for a broad range of injection molding applications. This resin has been specifically designed to provide an excellent combination of high processability and balanced mechanical strength for thinwall applications. **EVALENE® PHJ4501** is formulated with a nucleating agent which offers opportunities for increased productivity through faster cycle times and good stiffness even at elevated temperatures, making this grade suitable for microwave applications.

FEATURES

- High Flow
- Good stiffness-impact strength balance
- Good warpage resistance
- Good transparency
- Meets Philippine FDA food contact requirements
- Halal-certified

TYPICAL APPLICATIONS

- Reusable Food Containers
- Popcorn Tubs
- Tumblers and Drinking Cups
- CD and DVD Cases

JGSPC is proud of its Integrated Management System (IMS) which encompasses the Quality Management System under ISO 9001:2015, the Environmental Management System under ISO 14001:2015, and the Occupational Health and Safety Management System under OHSAS 18001:2007.

9F-11F, Robinsons Cyberscape Gamma Bldg. Topaz and Ruby Roads, Ortigas Center Brgy. San Antonio, Pasig City, 1605 Philippines Barangay Simlong Batangas City, 4200 Philippines

Product Properties

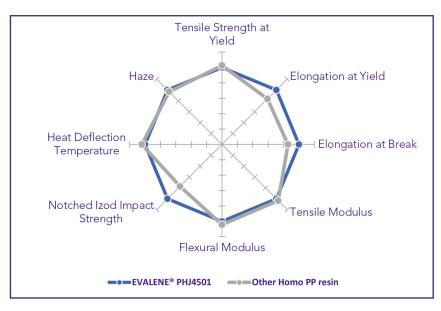
Property	Test Condition	Standard	Typical Value	Unit
Melt Flow	230°C / 2.16 kg	ASTM D1238	45	g/10 min
Tensile Strength at Yield*	50 mm/min	ASTM D638	37	MPa
Elongation at Yield*	50 mm/min	ASTM D638	17	%
Tensile Strength at Break*	50 mm/min	ASTM D638	18	MPa
Elongation at Break*	50 mm/min	ASTM D638	43	%
Tensile Modulus*	1% Secant, 5 mm/min	ASTM D638	2256	MPa
Flexural Modulus	1% Secant 1.3 mm/min	ASTM D790A	1443	MPa
Notched Izod Impact Strength	23°C	ASTM D256	13	J/m
Heat Deflection Temperature	0.455 MPa	ASTM D648	124	°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 comparison: EVALENE® PHJ4501 and other homopolymer PP grade



EVALENE® PHJ4501 brings producers with a better stiffnessimpact balance compared to the other Homo PP grade for thin wall injection molding, thus improving product performance in packaging container applications.

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