

Homopolymer Polypropylene



PHT0171

EVALENE[®] PHT0171 Homopolymer Polypropylene resin is designed for tough thermoforming and extrusion applications.

EVALENE[®] PHT0171 is specifically developed for thermoforming and is intended for use in a broad range of extrusion applications requiring high impact strength and good stiffness. This resin is fully formulated with a nucleating agent resulting in improved cycle times as well as opportunities for enhanced end-product appearance. **EVALENE[®] PHT0171** is ideal for containers requiring hot-fill and microwave compatibility.

FEATURES

- High Izod Impact strength
- Good stiffness
- Good cycle times
- Good transparency
- Meets Philippine FDA food contact requirements
- Halal-certified

TYPICAL APPLICATIONS

- Food Packaging Trays and Containers
- Drinking Cups
- Dunnage Trays
- Rigid Sheets

Product Properties

Property	Test Condition	Standard	Typical Value	Unit
Melt Flow	230°C / 2.16 kg	ASTM D1238	1.7	g/10 min
Melting Point	DSC, 10°C/min, 2nd heating	ASTM D3418	162	°C
Tensile Strength at Yield*	50 mm/min	ASTM D638	38	MPa
Elongation at Yield*	50 mm/min	ASTM D638	13	%
Tensile Strength at Break*	50 mm/min	ASTM D638	18	MPa
Elongation at Break*	50 mm/min	ASTM D638	65	%
Tensile Modulus*	1% Secant, 5 mm/min	ASTM D638	2408	MPa
Flexural Modulus	1% Secant 1.3 mm/min	ASTM D790A	1472	MPa
Notched Izod Impact Strength	23°C	ASTM D256	18**	J/m
Heat Deflection Temperature	0.455 MPa	ASTM D648	120	°C
Rockwell Hardness	R scale	ASTM D785	103	

*Tensile properties tested using injection molded specimens as per ASTM D4101

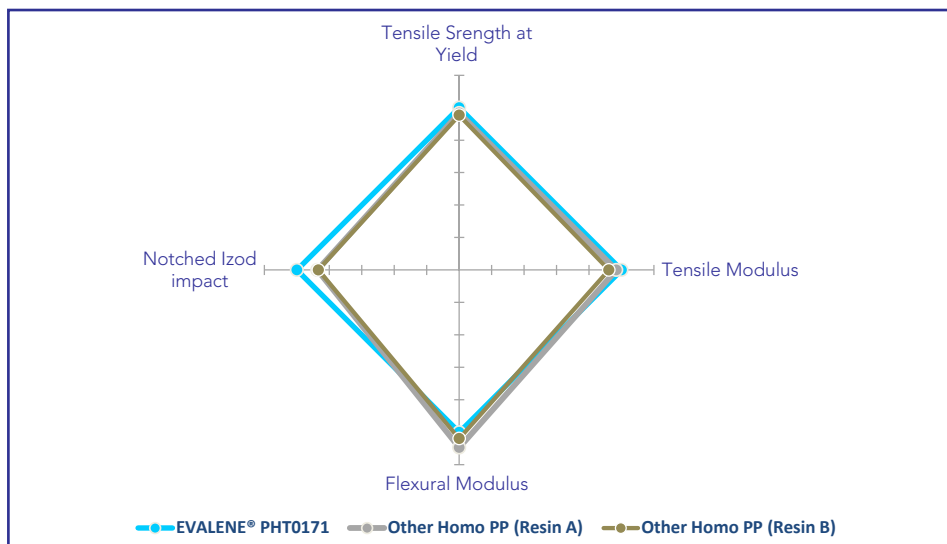
**Partial break

Typical Processing Conditions:

Extruder temperature: 200 - 250 °C

Mold temperature: 20 - 40 °C

Mechanical property comparison: EVALENE® PHT0171 and other homopolymer PP thermoforming grade



EVALENE® PHT0171 delivers enhanced performance benefits for end users, with better stiffness-impact balance compared to other thermoforming grades in the market.

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