

EVALENE® PP PHT0171

Polypropylene Homopolymer
JG Summit Petrochemical Corporation

Message:

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

General Information			
Additive	Nucleating agent		
Features	Good Clarity		
	Nucleated		
	Rigid, good		
	Homopolymer		
	Impact resistance, high		
	Good toughness		
Uses	Compliance of Food Exposure		
	Cup		
	Sheet		
	Container		
Forms	Food packaging		
	Particle		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	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 Modulus - 1% Secant ¹	2410	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	38.0	MPa	ASTM D638
Fracture	18.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	13	%	ASTM D638
Fracture	65	%	ASTM D638
Flexural Modulus - 1% Secant ⁴	1470	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁵ (23°C)	18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	120	°C	ASTM D648
Melting Temperature ⁶	162	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 250	°C	
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		
5.	Partial Break		
6.	DSC, 10°C/min, 2nd heating		

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