



# Alathon® H6017

Good processing characteristics and exhibits excellent toughness and color as well as low odor and good molded-part stability.

## Physical Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Melt Flow Rate, (190 °C/2.16 kg)	ASTM D1238	18 g/10 min	18 g/10 min
Density, (23 °C)	ASTM D1505	0.960 g/cm <sup>3</sup>	0.960 g/cm <sup>3</sup>
Bulk Density	ASTM D1895	593-625 kg/m <sup>3</sup>	37-39 lb/ft <sup>3</sup>
Spiral Flow	LYB Method	28.2 cm	11.1 in

## Mechanical Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Flexural Modulus	ASTM D790		
	1% Secant	1370 MPa	199000 psi
	2% Secant	1120 MPa	162000 psi
Flexural Young's Modulus	ASTM D790	1480 MPa	214000 psi
Tensile Modulus, (1% Secant)	ASTM D63	869 MPa	126000 psi
Tensile Young's Modulus	ASTM D638	1000 MPa	145000 psi
Tensile Stress at Break, (23 °C)	ASTM D638	29.6 MPa	4300 psi
Tensile Elongation at Break, (23 °C)	ASTM D638	12 %	12 %

## Impact Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Notched Izod Impact Strength, (23 °C)	ASTM D256	39 J/m	0.74 ft-lb/in
Unnotched Impact Strength, (-18 °C)	ASTM D4812	550 J/m	10 ft-lb/in

## Features

- Good Processability
- Good Toughness
- Low Odor

## Applications

- Caps
- Closures
- Containers
- Food Containers
- Household Goods
- Lids
- Packaging
- Rigid Packaging

## Colors

- Off-white
- Black
- Blue

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## Hardness Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Shore Hardness, (Shore D, max)	ASTM D2240	72	72

## Thermal Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Vicat Softening Temperature	ASTM D1525	128 °C	262 °F
Low Temperature Brittleness, F <sub>50</sub>	ASTM D746	<-76 °C	<-105 °F
Deflection Temperature Under Load, (66 psi, Unannealed)	ASTM D648	74 °C	165 °F
Melting Temperature	ASTM D3418	133 °C	271.4 °F
Crystallization Temperature	ASTM D3418	115.7 °C	240.3 °F

### Notes

Conditions of Tensile Stress and Elongation values are: 50 mm/min, Type IV specimen.  
Conditions of Flexural Modulus values are: 0.5 inches/min or 12.5 mm/min.  
Conditions of Tensile Modulus values are: 50 mm/min, Type I Specimen.  
Spiral Flow measures the number of inches of flow produced when molten resin is injected into a long, spiral channel (0.0625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440 °F.  
Deflection Temperature Under Load and Low Temperature Brittleness data are for control and development work and are not intended for use in design or predicting performance at elevated or sub-ambient temperatures. These are typical property values not to be construed as specification limits.

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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