

Technical Data Sheet

Alathon H6011

High Density Polyethylene



Product Description

Alathon H6011 provides good processing characteristics, good stiffness, and impact resistance. Typical applications include crates and pallets.

Application Crates; Pallets/Trays/Tote Bins

Market Rigid Packaging

Processing Method Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	12	g/10 min	12	g/10 min	ASTM D1238
Density, (23 °C)	0.960	g/cm ³	0.960	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus					
(1% Secant)	205000	psi	1410	MPa	ASTM D790
(2% Secant)	171000	psi	1180	MPa	ASTM D790
Flexural Young's Modulus	231000	psi	1590	MPa	ASTM D790
Tensile Stress at Yield, (23 °C)	4220	psi	29.1	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	10	%	10	%	ASTM D638
Impact					
Notched Izod Impact Strength, (23 °C)	0.82	ft-lb/in	42	J/m	ASTM D256
Thermal					
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Deflection Temperature Under Load, (66 psi, Unannealed)	167	°F	75	°C	ASTM D648