

Technical Data Sheet

Alathon H5275



High Density Polyethylene

Product Description

Alathon H5275 is a high-flow resin that exhibits enhanced processing and thermal stability for fast cycling in multi-cavity molds, good color and organoleptic properties. Typical applications are rigid food containers and consumer houseware products.

Status	Commercial
Availability	North America
Application	Housewares; Lids; TWIM Food Containers
Market	Consumer Products; 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)	75	g/10 min	75	g/10 min	ASTM D1238
Density, (23 °C)	0.952	g/cm ³	0.952	g/cm ³	ASTM D1505
Bulk Density	37-39	lb/ft ³	593-625	kg/m ³	ASTM D1895
Mechanical					
Flexural Modulus					
(1% Secant)	166000	psi	1145	MPa	ASTM D790
(2% Secant)	140000	psi	962	MPa	ASTM D790
Flexural Young's Modulus	190000	psi	1310	MPa	ASTM D790
Tensile Stress at Break, (23 °C)	3310	psi	19	MPa	ASTM D638
Tensile Elongation at Break, (23 °C)	3.7	%	3.7	%	ASTM D638
Impact					
Notched Izod Impact Strength, (23 °C)	0.4	ft-lb/in	21	J/m	ASTM D256
Hardness					
Shore Hardness, (Shore D, max)	67		67		ASTM D2240
Thermal					
Vicat Softening Temperature	251.6	°F	122	°C	ASTM D1525
Melting Temperature	261.8	°F	127.7	°C	ASTM D3418
Crystallization Temperature	236.0	°F	113.4	°C	ASTM D3418