

Alathon® M5265

High Density Polyethylene
LyondellBasell Industries

Message:

Alathon M5265 is a narrow molecular weight distribution octene-copolymer used in the manufacture of open-head pails and covers.

General Information			
Features	Food Contact Acceptable		
	Narrow Molecular Weight Distribution		
	Octene Comonomer		
Uses	Pails		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Apparent Density	0.59 to 0.63	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5	g/10 min	ASTM D1238
Spiral Flow	19.6	cm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	764	MPa	
1% Secant	681	MPa	
Tensile Strength ²			ASTM D638
Yield	26.4	MPa	
Break	> 27.6	MPa	
Tensile Elongation ³			ASTM D638
Yield	12	%	
Break	> 2200	%	
Flexural Modulus ⁴			ASTM D790
--	1300	MPa	
1% Secant	1130	MPa	
2% Secant	944	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	69.4	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746

Vicat Softening Temperature	127	°C	ASTM D1525
Peak Melting Temperature	132	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	118	°C	ASTM D3418
Injection	Nominal Value	Unit	
Rear Temperature	232	°C	
Middle Temperature	243	°C	
Front Temperature	246	°C	
Nozzle Temperature	246	°C	
NOTE			
1.	Type I, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		
4.	13 mm/min		

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