

Alathon® M6080UV

High Density Polyethylene
LyondellBasell Industries

Message:

Alathon M6080UV is a narrow molecular weight distribution homopolymer that exhibits enhanced flow characteristics and good balance of stiffness and impact resistance. Typical applications include cases, tote bins, crates and trays. M6080UV contains a UV stabilizer for outdoor applications.

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Homopolymer		
	Narrow Molecular Weight Distribution		
Uses	Crates		
	Outdoor Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	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)	7.9	g/10 min	ASTM D1238
Spiral Flow	21.8	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	1020	MPa	
1% Secant	845	MPa	
Tensile Strength ²			ASTM D638
Yield	29.3	MPa	
Break	15.9	MPa	
Tensile Elongation ³ (Break)	380	%	ASTM D638
Flexural Modulus ⁴			ASTM D790
--	1410	MPa	
1% Secant	1310	MPa	
2% Secant	1020	MPa	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	23	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
Peak Melting Temperature	133	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	116	°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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