

Alathon® M6580

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON M6580 is a narrow molecular weight distribution homopolymer that enhances processability and stiffness, exhibits excellent color, low odor and good processing stability. Typical applications include cases, crates, trays, tote bins, ATV parts and open-head pails.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Good Processing Stability		
	Good Stiffness		
	Homopolymer		
	Low to No Odor		
	Narrow Molecular Weight Distribution		
Uses	Crates		
	Pails		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.965	g/cm ³	ASTM D1505
Apparent Density	0.53 to 0.59	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.2	g/10 min	ASTM D1238
Spiral Flow	25.1	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
-- ¹	1240	MPa	
1% Secant	932	MPa	
Tensile Strength ²			ASTM D638
Yield	32.1	MPa	
Break	31.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	7.0	%	
Break	16	%	
Flexural Modulus ⁴			ASTM D790

1% Secant	1650	MPa	
2% Secant	1400	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	36	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.8	°C	ASTM D648
Brittleness Temperature	-72.8	°C	ASTM D746
Vicat Softening Temperature	131	°C	ASTM D1525
Peak Melting Temperature	133	°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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT