Alathon® M5350

High Density Polyethylene Copolymer

LyondellBasell Industries

Message:

Alathon M5350 is a copolymer with a narrow molecular weight distribution. This resin provides high impact strength, excellent color, low odor and good processing stability. Typical applications include open head pails, large shipping containers and 55-gallon drum lids.

General Information			
Features	Copolymer Food Contact Acceptable Good Processing Stability High ESCR (Stress Crack Resist.) High Impact Resistance Low to No Odor Narrow Molecular Weight Distribution		
Uses	Containers Drums Lids Pails		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.953	g/cm³	ASTM D1505
Apparent Density	0.53 to 0.59	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Spiral Flow	20.6	cm	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]			ASTM D638
--	1020	MPa	
1% Secant	808	MPa	
Tensile Strength [2]			ASTM D638
Yield	28.0	MPa	
Break	> 29.0	MPa	
Tensile Elongation [3]			ASTM D638
Yield	9.0	%	
Break	> 2000	%	
Flexural Modulus [4]			ASTM D790

--	1370	MPa	
1% Secant	1290	MPa	
2% Secant	1060	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	44	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.3	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525
Peak Melting Temperature	131	°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		

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