

Alathon® M5363

高密度聚乙烯

LyondellBasell Industries

Technical Data

Product Description

Alathon M5363 is a high density copolymer with a narrow molecular weight distribution. This resin provides high impact strength and stress crack resistance, excellent color, low odor and good processability. Typical applications include open head pails, large shipping containers and 55-gallon drum lids.

General

Features	<ul style="list-style-type: none"> • Good ESCR (Stress Crack Resist.) • 高抗撞击性 • 共聚物 	<ul style="list-style-type: none"> • 良好的加工性能 • 良好的着色性 • 气味低到无 	<ul style="list-style-type: none"> • 窄分子量分布
Uses	<ul style="list-style-type: none"> • 包装 • 盖子 	<ul style="list-style-type: none"> • 容器 • 桶 	<ul style="list-style-type: none"> • 硬包装
Processing Method	<ul style="list-style-type: none"> • 注射成型 		

Physical

	额定值 单位制	测试方法
Density ³	0.953 g/cm ³	ASTM D1505
Apparent (Bulk) Density	0.53 到 0.59 g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5 g/10 min	ASTM D1238
Spiral Flow	22.6 cm	Internal Method

Mechanical

	额定值 单位制	测试方法
Tensile Modulus		ASTM D638
--	1030 MPa	
1% 正割	807 MPa	
Tensile Strength		ASTM D638
屈服, 23°C	28.1 MPa	
断裂, 23°C	24.1 MPa	
Tensile Elongation		ASTM D638
屈服, 23°C	8.5 %	
断裂, 23°C	1500 %	
Flexural Modulus		ASTM D790
--	1450 MPa	
1% 正割	1290 MPa	
2% 正割	1070 MPa	

Impact

	额定值 单位制	测试方法
Notched Izod Impact (23°C)	45 J/m	ASTM D256
Unnotched Izod Impact (-18°C)	无断裂	ASTM D4812

Hardness

	额定值 单位制	测试方法
Durometer Hardness (邵氏 D)	70	ASTM D2240

Thermal

	额定值 单位制	测试方法
Deflection Temperature Under Load		ASTM D648
0.45 MPa, 未退火	74.0 °C	
Brittleness Temperature	< -76.0 °C	ASTM D746
Vicat Softening Temperature	126 °C	ASTM D1525
Peak Melting Temperature	130 °C	ASTM D3418
Peak Crystallization Temperature (DSC)	117 °C	ASTM D3418