

Alathon® L5876

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON L5876 is designed for injection blow molding and extrusion blow molding applications where higher gloss than standard grades is required.

General Information	
Features	Food Contact Acceptable High Gloss
Uses	Blow Molding Applications
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Blow Molding Extrusion Blow Molding Injection Blow Molding

Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.74	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.3	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	85.4	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525

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