Alathon® M6028

High Density Polyethylene

LyondellBasell Industries

Message:

M6028 is a homopolymer that is warp resistant, exhibits excellent toughness, stiffness and color as well as low odor and good processing stability. Typical applications include safety equipment (hard hats), hardware items and heavy wall moldings.

General Information			
Features	Food Contact Acceptable		
	Good Processing Stability		
	Good Stiffness		
	Good Toughness		
	Low to No Odor		
	Warp Resistant		
Uses	Safety Helmets		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Spiral Flow	16.3	cm	Internal Method

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield [1]	28.4	MPa	
Break	31.1	MPa	
Tensile Elongation [2] (Yield)	10	%	ASTM D638
Flexural Modulus [3]			ASTM D790
1% Secant	1280	MPa	
2% Secant	1050	MPa	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525

Injection	Nominal Value	Unit	
Rear Temperature	232	°C	

Middle Temperature	243	°C
Front Temperature	246	°C
Nozzle Temperature	246	°C
NOTE		
1.	51 mm/min	
2.	51 mm/min	
3.	13 mm/min	

Recommended distributors for this material

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