

Technical Data Sheet
POLYAXIS® LP 701
 High Density Polyethylene
 Rotomolding



Product Description

Long term UV8 stabilization

General

Additive	• Long Term UV-8 Stabilizer		
Appearance	• Black	• Colors Available	
Forms	• Pellets	• Powder	
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity ¹	0.947	0.945 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield, Rotational Molded)	3100 psi	21.4 MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Break, Rotational Molded	400 %	400 %	
Flexural Modulus - 1% Secant (Rotational Molded)	115000 psi	793 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm), Rotational Molded	60 ft·lb	81 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Rotational Molded	131 °F	55.0 °C	

Notes

¹ Compression Molded

² 2.0 in/min (51 mm/min)

Notes

These are typical property values not to be construed as specification limits.