

## Technical Data Sheet

### *Polyaxis* HD 4860-6A073G BLUE



High Density Polyethylene

#### Product Description

*Polyaxis* HD 8761 is a high density polyethylene intended for the rotational molding industry. Offers outstanding stiffness and processability.

Processing Method	Rotomolding
Attribute	Good Moldability; Good Stiffness; Hexene Comonomer; UV Resistant
Forms	Powder
Appearance	Colors Available
Application	General Purpose; Outdoor Applications; Tanks

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	0.946	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	21.4	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	20.0	hr	ASTM D1693
(Compression Molded, F50, 10% Igepal)	20.0	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	1030	MPa	ASTM D790
Tensile Elongation at Break, (Rotational Molded)	10	%	ASTM D638
<b>Impact</b>			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	75	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>183	J	ARM
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	38.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	65.6	°C	ASTM D648
Peak Melting Temperature	129	°C	ASTM D3418

## Notes

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

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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