Technical Data Sheet

# *Polyaxis* HD 4860-4A576G TERCOT ORE

High Density Polyethylene

## Product Description

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

## Regulatory Status

For regulatory compliance information, see *Polyaxis* HD 4860-4A576G TERCOT ORE Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Discontinued |
| **Availability** | North America |
| **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 |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 0.946 | g/cm³ | ASTM D1505 |
| **Mechanical** | | | |
| Tensile Strength at Yield, (51 mm/min, Rotational Molded) | 21.4 | MPa | ASTM D638 |
| Flexural Modulus, (Rotational Molded, 1% Secant) | 1030 | MPa | ASTM D790 |
| Environmental Stress Crack Resistance | | | |
| (Compression Molded, F50, 100% Igepal) | 20.0 | hr | ASTM D1693 |
| (Compression Molded, F50, 10% Igepal) | 20.0 | hr | ASTM D1693 |
| Tensile Elongation at Break, (Rotational Molded) | 10 | % | ASTM D638 |
| **Impact** | | | |
| Impact Strength | | | |
| (-40 °C, 3.18 mm, Rotational Molded) | 75 | J | ARM |
| (-40 °C, 6.35 mm, Rotational Molded) | >183 | J | ARM |
| **Thermal** | | | |
| 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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