

Technical Data Sheet

**Microthene MU763000**

Ethylene Vinyl Acetate Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

MICROTHENE MU 763-000 is a high ethylene vinyl acetate copolymer powder designed particularly for applications requiring high strength at low temperatures. It can be used to produce a variety of rotationally molded objects, including traffic cones, toys and flexible ducts.

MU 763-000 exhibits high flow, flexibility and good impact strength, particularly at low temperatures. It is available as a 35-mesh powder.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Good Flexibility • Good Impact Resistance	• High Flow • High Strength	• Low Temperature Impact Resistance • Low Temperature Strength
Uses	• Toys		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11 g/10 min	11 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693A
10% Igepal, Rotational Molded, F50	1.00 hr	1.00 hr	
100% Igepal, Rotational Molded, F50	4.00 hr	4.00 hr	
Vinyl Acetate Content	9.0 wt%	9.0 wt%	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹			ASTM D638
Yield, 0.125 in (3.18 mm), Rotational Molded	1700 psi	11.7 MPa	
Flexural Modulus - 1% Secant			ASTM D790
0.125 in (3.18 mm), Rotational Molded	13800 psi	95.1 MPa	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Rotational Molded	98.6 °F	37.0 °C	
264 psi (1.8 MPa), Unannealed, Rotational Molded	73.4 °F	23.0 °C	

Additional Information

Low Temperature Impact, ARM STD, -40°F, 0.125 in, Rotational Molded: 40 ft-lbs
Low Temperature Impact, ARM STD, -40°F, 0.25 in, Rotational Molded: 200 ft-lbs

Notes

¹ 2.0 in/min (51 mm/min)

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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