

Microthene® MU763000

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Message:

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 Information

Features	Low temperature strength High strength Impact resistance, good Good flexibility High liquidity Low temperature impact resistance
Uses	Toys
Agency Ratings	FDA 21 CFR 177.1350
Forms	Powder
Processing Method	rotomolding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, rotomolding, F50	1.00	hr	ASTM D1693A
100% Igepal, rotomolding, F50	4.00	hr	ASTM D1693A
Vinyl Acetate Content	9.0	wt%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.18 mm, Rotational Molded)	11.7	MPa	ASTM D638
Flexural Modulus - 1% Secant (3.18 mm, Rotational Molded)	95.1	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, rotational molding	37.0	°C	ASTM D648
1.8 MPa, unannealed, rotational molding	23.0	°C	ASTM D648

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

NOTE

1. 51 mm/min

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