Microthene® MN71120

Low Density Polyethylene

LyondellBasell Industries

Message:

MICROTHENE MN 711-20 is a very high flow, rotational molding powder for general-purpose applications. MN 711-20 can be used to produce a variety of rotomolded objects including toys, containers and liners.
MN 711-20 produces parts with smooth inner surfaces and good impact strength. MN 711-20 also provides consistent shrinkage characteristics, good warp resistance and is available as a 35-mesh powder.

General Information			
Features	Impact resistance, good High liquidity Compliance of Food Exposure General		
Uses	Lining Container Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Powder		
Processing Method	rotomolding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.915	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	22	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, rotomolding, F50	< 1.00	hr	ASTM D1693A
100% Igepal, rotomolding, F50	1.00	hr	ASTM D1693A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.18 mm, Rotational Molded)	78.6	MPa	ASTM D638
Flexural Modulus - 1% Secant (3.18 mm, Rotational Molded)	139	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, rotational molding	40.0	°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: 30 ft-lbsLow Temperature Impact, ARM STD, -40°F, 0.25 in, Rotational Molded: 60 ft-lbs			
NOTE			

1.	Type 4, 51mm/min

Recommended distributors for this material

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