

Technical Data

Product Description

M99001 is a specifically developed for rotational molding applications. M9001 is a LLDPE grade with excellent stiffness, good impact strength and toughness. M9001 is the recommended material for large water tanks and other general rotational molded articles.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Asia Pacific	• North America	
Features	• Good Impact Resistance	• Good Toughness	
	• Good Stiffness	• Recyclable Material	
Uses	• Agricultural Tanks	• Containers	• Tanks
Forms	• Pellets	• Powder	
Processing Method	• Rotational Molding		

Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³			ASTM D638
Yield	21.0	MPa	
Break	28.0	MPa	
Tensile Elongation ³ (Break)	1100	%	ASTM D638
Flexural Modulus ⁴	750	MPa	ASTM D790
Impact	Nominal Value	Unit	
ARM Impact - Rotomolded (-40°C, 5.00 mm)	250	J/cm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	75.0	°C	
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Peak Melting Temperature	127	°C	ASTM D2117
Peak Crystallization Temperature (DSC)	113	°C	ASTM D2117

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

⁴ 2.0 mm/min

Where to Buy

Supplier

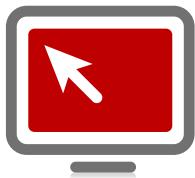
SCG Chemicals Co., Ltd.
Bangkok, Thailand
Telephone: 66-2586-4184
Web: <http://www.scgchemicals.co.th/>

Distributor

Calsak Polymers
Telephone: 800-743-2595
Web: <http://www.calsakpolymers.com/>
Availability: North America



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