

Moharamplast MDPE MP3990U

Medium Density Polyethylene

Moharamplast S.A.E

Message:

A medium density polyethylene (MDPE) powder compound designed to provide excellent stress crack resistance, better mechanical properties with high rigidity, toughness, gloss and very low warpage. Antioxidants and UV stabilizers are added to ensure protection against degradation by heat or UV irradiation.

Safety

MDPE MP3990U is classified as no-dangerous material.

We advise you to follow our safety guidelines and recommendations in our Material Safety Data Sheet.

Typical Applications

MDPE MP3990U has been designed for rotational molding applications as large industrial and agricultural tanks, trash containers, chemical shipping drums and also suitable for injection molding applications such as screw closures, caps and housewares.

General Information			
Additive	Antioxidant		
	UV Stabilizer		
Features	Antioxidant		
	Good Toughness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	High Rigidity		
	Low Warpage		
	Medium Density		
Uses	Agricultural Tanks		
	Caps		
	Closures		
	Containers		
	Drums		
	Household Goods		
	Industrial Tanks		
	Tanks		
Forms	Powder		
Processing Method	Injection Molding		
	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.939	g/cm³	ASTM D792

Apparent Density	0.37	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 200	hr	ASTM D1693
Particle Size - Medium	500	μm	ASTM D1921
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	18.0	MPa	
Break	17.0	MPa	
Tensile Elongation (Break)	> 1000	%	ASTM D638
Flexural Modulus	750	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	20	kJ/m ²	ASTM D6110
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	117	°C	ASTM D1525
Melting Temperature	125	°C	ASTM D2117
NOTE			
1.	23°C		

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