

# ROTOLENE® Black Total Plus

Linear Medium Density Polyethylene

Polimeros Mexicanos S.A. de C.V.

## Message:

Linear Copolymer Medium Density Polyethylene, with U.V. stabilizer.8

Available as black powder.

Applications: Polyethylene of good quality, for manufacture water tanks, containers and other products that need excellent mechanical and environmental resistance properties with an intense black finished when it's used as an external layer.

This compound meets all requirements of US Food and Drug Administration (FDA) as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

General Information			
Additive	Long-term UV-8 stabilizer		
Features	UV Stabilized		
	Copolymer		
	Compliance of Food Exposure		
	Medium density		
Uses	Container		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Black		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.930 - 0.940	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5 - 5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
10% Igepal	200	hr	ASTM D1693
100% Igepal	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	18.6	MPa	ASTM D638
Fracture	20.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	12	%	ASTM D638
Fracture	> 800	%	ASTM D638
Flexural Modulus <sup>2</sup>	690	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact (3.18 mm)	67.8	J	ARM

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	60.0	°C	ASTM D648
Additional Information			
Mechanical properties determined on rotomolded plaque 1/8 in (3.175mm)			
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

