

Moharamplast MDPE MP-IRR 3810

Medium Density Polyethylene

Moharamplast S.A.E

Message:

A medium density polyethylene (MDPE) compound designed to provide excellent corrosion resistance, chemical resistance, abrasion resistance, stiffness and environmental stress crack resistance (ESCR).
It is UV stabilized, protected from oxidation, microorganisms and fungi attack and has Low temperature resistance so remains intact and undamaged even after freezing.

Safety
MP-IRR 3810 is classified as no-dangerous material.
We advise you to follow our safety guidelines and recommendations in our Material Safety Data Sheet.

Typical Applications
MP-IRR3810 is resistant to saline water, acids and alkaline solutions (excluding highly concentrated solutions) so mainly used in agricultural irrigation systems, water delivery systems, sprinkler and micro-sprinkler stands, assembly dripper sets and automation application.

General Information			
Additive	UV Stabilizer		
Features	Acid Resistant		
	Alkali Resistant		
	Fungus Resistant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Stiffness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Resistant		
	Medium Density		
	Microbe Resistant		
	Oxidation Resistant		
Uses	Irrigation Applications		
	Piping		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.938	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (10% Igepal)	> 1000	hr	ASTM D1693
Carbon Black Content	> 2.2	%	ASTM D1603
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.0	MPa	
Break	28.0	MPa	
Tensile Elongation (Break)	> 700	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	> 115	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 to 210	°C	
Cylinder Zone 3 Temp.	190 to 210	°C	
Cylinder Zone 5 Temp.	190 to 210	°C	
Melt Temperature	200 to 220	°C	
Head Temperature	200 to 210	°C	
Die Temperature	200 to 210	°C	
NOTE			
1.	23°C		

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