

REVOLVE® M-686

Polyethylene
Matrix Polymers

Message:

Revolve M-686 is a fully formulated rotomoulding resin especially suitable for large tank applications. Additionally this grade carries WRC approval for potable water applications (Cert No. 0311501) and it is designed to meet the requirements of BS4213. It has a high (2% min) carbon black content for extra UV stability and opacity.

General Information			
Additive	Carbon Black (2%)		
Features	Good Impact Resistance		
	Good Moldability		
	Good UV Resistance		
	High Hardness		
	High Stiffness		
Uses	Tanks		
Appearance	Black		
Forms	Pellets		
	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	3.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
10% Igepal	478	hr	
100% Igepal	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.5	MPa	ISO 527-2/50
Flexural Modulus ¹	820	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact - ARM (3.00 mm)	95.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	48.0	°C	ISO 75-2/A
NOTE			
1.	1.3 mm/min		

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