



SABIC® HDPE B5308

HIGH DENSITY POLYETHYLENE FOR EXTRUSION BLOW MOLDING

DESCRIPTION

HDPE B5308 is a multi-modal HMW HDPE grade specifically designed for blow molding floaters for floating photovoltaic (PV) panel systems. It has outstanding ESCR (environmental stress crack resistance), excellent mechanical properties, very good toughness and stiffness balance, long lifetime and easy blow molding processability. B5308 is also suitable for large size containers such as water tanks and transportation containers when high ESCR and toughness/stiffness balance is required.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL ⁽¹⁾			
Density	0.953	g/cm ³	ISO 1183
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 190°C & 21.6 kg load	8	g/10 min	ISO 1133
@ 190°C & 5 kg load	0.32	g/10 min	ISO 1133
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Strength @ Yield	25	MPa	ISO 527
Tensile Strength @ Break	35	MPa	ISO 527
Tensile Elongation @ Break	>800	%	ISO 527
Izod Impact , Notched, 23 °C	22	kJ/m ²	ISO 180
Izod Impact, Notched, -30°C	10	kJ/m ²	ISO 180
Tensile modulus	1050	MPa	ISO 527
Hardness Shore D	60	-	ISO 868
ESCR (10% Igepal), F50	>1000	Hrs	ASTM D1693B
THERMAL PROPERTIES ⁽¹⁾			
Melting temperature (10 °C/min)	132	°C	ISO 11357-1/-3
Heat Deflection Temperature (455 kPa)	73	°C	ISO 75
Vicat Softening Point @ 10N (VST/A)	126	°C	ISO 306