



Revision 20211207

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) ISO 1183 Density 0.953 g/cm³ 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/m² ISO 180 ISO 180 Izod Impact, Notched, -30°C 10 kJ/m² MPa Tensile modulus 1050 ISO 527 Hardness Shore D 60 ISO 868 ESCR (10% Igepal), F50 ASTM D1693B >1000 Hrs 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

(1) Data in above are typical properties and not to be construed as specifications.

STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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