

# Petra® 7010 BK5830

## Polyethylene Terephthalate

### BASF Corporation

#### Product Description

Petra 7010 BK5830 is a 15% glass fiber reinforced, pigmented black injection molding compound based on post-consumer recycle polyethylene terephthalate. Formulated for superior surface aesthetics, it exhibits excellent melt stability and high flow over a broad range of processing conditions. The combination of high strength and dimensional stability enable its use in structural applications designed for metal.

#### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight
Recycled Content	• Yes
Features	• Good Dimensional Stability • High Melt Stability • High Flow • High Strength
Uses	• Appliance Components • Handles
Appearance	• Black
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1440	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	97.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	2.7	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	6300	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.00	kJ/m <sup>2</sup>	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	166	°C	ISO 75-2 <sup>2</sup>
Melting Temperature (DSC)	245	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.010	%
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	100 to 110	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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