

Petra® 7030 GY6128

Polyethylene Terephthalate

BASF Corporation

Product Description

Petra 7030 GY6128 is a grey pigmented, high flow 30% glass fiber reinforced injection molding compound based on post-consumer and post-industrial recycled polyethylene terephthalate feedstock. It offers strength, stiffness, and rigidity combined with excellent dimensional stability, creep resistance and high temperature performance. It's improved flow results in excellent surface aesthetics which can eliminate the need for painting parts.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Recycled Content	• Yes		
Features	• Good Creep Resistance • Good Dimensional Stability • Good Stiffness	• Good Strength • Good Surface Finish • High Flow	• High Heat Resistance
Uses	• Furniture		
Agency Ratings	• ULC Unspecified Rating		
Appearance	• Gray		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	Nominal Value	Unit	Test Method
Specific Gravity	--	1.55 g/cm ³	ASTM D792
	--	1550 kg/m ³	ISO 1183 ²
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength			
Break, 23°C	150	MPa	ASTM D638
Break	150	MPa	ISO 527-2 ²
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2 ²
Flexural Modulus			
23°C	9090	MPa	ASTM D790
23°C	8830	MPa	ISO 178
Flexural Strength (23°C)	240	MPa	ASTM D790

Impact

	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C	9.50	kJ/m ²	ISO 180

Hardness

	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785

Thermal

	Nominal Value	Unit	Test Method
Melting Temperature	245	°C	ASTM D3418 ISO 3146
CLTE - Flow	0.000023	cm/cm/°C	ASTM E831

Flammability

	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94

UL 746

	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	140	°C	UL 746
RTI Imp (1.50 mm)	140	°C	UL 746
RTI Elec (1.50 mm)	140	°C	UL 746

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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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

¹ Typical properties: these are not to be construed as specifications.

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

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