

# RTP 1182

Polyethylene Terephthalate

RTP Company

## Message:

Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.

Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Carbon Fiber, 15% Filler by Weight		
Features	Electrically Conductive		
RoHS Compliance	Contact Manufacturer		
Appearance	Black Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	320	J/m	ASTM D4812
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Suggested Max Regrind	20	%	
Rear Temperature	260 to 302	°C	
Middle Temperature	260 to 302	°C	
Front Temperature	260 to 302	°C	
Mold Temperature	107 to 135	°C	
Injection Pressure	68.9 to 103	MPa	
Back Pressure	0.172 to 0.517	MPa	
Clamp Tonnage	6.9 to 11	kN/cm <sup>2</sup>	

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#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

