

# RTP 2583 FR

Polycarbonate + ABS

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.  
RTP 2585 FR Series materials are carbon fiber PAN reinforced polycarbonate/ABS alloy. These materials meet the flammability requirements of UL94 V-0 and are available in a range of colors. They are characterized with excellent physical properties and improved process.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Processability		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	152	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	91	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	480	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	113	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.59 mm, RTP Tested)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	98.9	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	20	%
Rear Temperature	232 to 288	°C
Middle Temperature	232 to 288	°C
Front Temperature	232 to 288	°C
Mold Temperature	71.1 to 98.9	°C
Injection Pressure	68.9 to 103	MPa
Back Pressure	0.345	MPa
Clamp Tonnage	6.9 to 11	kN/cm <sup>2</sup>

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#### Recommended distributors for this material

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