

# RTP 3485-3 TFE 15

Liquid Crystal Polymer

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 reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	31000	MPa	ASTM D638
Tensile Strength	102	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638
Flexural Modulus	22800	MPa	ASTM D790
Flexural Strength	155	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	210	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	299	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94
Additional Information			
The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.			
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	

Drying Time	8.0	hr
Suggested Max Regrind	20	%
Rear Temperature	335 - 354	°C
Middle Temperature	335 - 354	°C
Front Temperature	335 - 354	°C
Nozzle Temperature	343 - 379	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	103 - 138	MPa
Clamp Tonnage	5.5 - 11	kN/cm <sup>2</sup>

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#### Recommended distributors for this material

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