

RTP 383 TFE 15 FR

Polycarbonate
RTP Company

Message:

Carbon Fiber - PTFE Lubricated - Flame Retardant - UL94 V-0

General Information			
UL YellowCard	E84658-251467		
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Lubrication		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.010 - 0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Moisture Content	0.020	%	
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	13400	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	146	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10 - 1.0E+3	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	288 - 316	°C
Mold Temperature	82.2 - 121	°C
Injection Pressure	68.9 - 103	MPa

Injection instructions

Desiccant Type Dryer Required.

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Recommended distributors for this material

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