

RTP 287E

Polyamide

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 200 E Series is based on amorphous nylon. Because it is amorphous it has better dimensional stability than the high crystalline nylons yet retains the desirable properties of the nylon family.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Amorphous		
	Good Dimensional Stability		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	32800	MPa	ASTM D638
Tensile Strength	241	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	24100	MPa	ASTM D790
Flexural Strength	345	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	149	°C	
1.8 MPa, Unannealed	143	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Volume Resistivity	0.10	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.010	%
Suggested Max Regrind	20	%
Rear Temperature	271 to 299	°C
Middle Temperature	271 to 299	°C
Front Temperature	271 to 299	°C
Mold Temperature	65.6 to 98.9	°C
Injection Pressure	103 to 124	MPa

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Recommended distributors for this material

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