## RTP 1507-55D

## Thermoplastic Elastomer

**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 1500-55D Series materials offer strength, controlled resiliency, impact resistance, high and low temperature capabilities, good chemical and electrical properties. They combine many of the best characteristics of plastics and rubber and are readily processed on standard injection machines.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40%	Glass fiber reinforced material, 40% filler by weight		
Features	High strength	High strength		
	Impact resistance, good			
RoHS Compliance	Contact manufacturer	Contact manufacturer		
Appearance	Black			
	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.52	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	55		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	4480	MPa	ASTM D638	
Tensile Strength (Yield)	61.0	MPa	ASTM D638	
Tensile Elongation (Break)	7.0	%	ASTM D638	
Flexural Modulus	3450	MPa	ASTM D790	
Flexural Strength (Yield)	86.2	MPa	ASTM D790	
Compressive Strength	52.0	MPa	ASTM D695	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	290	J/m	ASTM D256	
Unnotched Izod Impact (3.18 mm)	960	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	196	°C	ASTM D648	
1.8 MPa, not annealed	168	°C	ASTM D648	

CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696	
Thermal Conductivity	0.20	W/m/K	ASTM C177	
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257	
Dielectric Strength	20	kV/mm	ASTM D149	
Dielectric Constant (1 MHz)	4.75		ASTM D150	
Dissipation Factor (1 MHz)	0.024		ASTM D150	
Arc Resistance	60.0	sec	ASTM D495	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating (1.59 mm, Values per RTP Company testing.)	НВ		UL 94	
Additional Information				
Molding Shrinkage, Linear-Flow, ASTM D955, 6.35mm: 3mm/m.				
Injection	Nominal Value	Unit		
Rear Temperature	188 - 216	°C		
Middle Temperature	188 - 216	°C		
Front Temperature	188 - 216	°C		
Mold Temperature	21.0 - 38.0	°C		
Injection Pressure	68.9 - 103	MPa		

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Recommended distributors for this material

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