

RTP 1205-80D

Thermoplastic Polyurethane Elastomer (Polyester)

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	Glass Fiber,30% Filler by Weight		
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Low Temperature Toughness		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7240	MPa	ASTM D638
Tensile Strength (Yield)	117	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength (Yield)	159	MPa	ASTM D790
Compressive Strength	82.7	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	132	°C	
1.8 MPa, Unannealed	85.0	°C	

CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.50		ASTM D150
Dissipation Factor (1 MHz)	0.014		ASTM D150
Arc Resistance	90.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	182 to 199	°C	
Middle Temperature	188 to 204	°C	
Front Temperature	193 to 210	°C	
Mold Temperature	15.6 to 65.6	°C	
Injection Pressure	68.9 to 103	MPa	

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Recommended distributors for this material

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