

RTP 1200-80D

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			
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	1.22	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	207	MPa	ASTM D638
Tensile Strength (Yield)	48.3	MPa	ASTM D638
Tensile Elongation (Break)	380	%	ASTM D638
Flexural Modulus	345	MPa	ASTM D790
Flexural Strength (Yield)	55.2	MPa	ASTM D790
Compressive Strength	27.6	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	No Break		ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	87.8	°C	
1.8 MPa, Unannealed	54.4	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.23	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.10		ASTM D150
Dissipation Factor (1 MHz)	0.10		ASTM D150
Arc Resistance	122	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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