RTP 1500.5-40D

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.
The reinforced polyester elastomers offer many advantages over the base resin. Adding small amounts of glass, 5, 10, and 15% retains the elastomeric properties of the materials while increasing tensile strength and dimensional stability. The electrical properties are also improved.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 5.0% filler by weight		
Features	Good dimensional stability High strength		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	40		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	414	MPa	ASTM D638
Tensile Strength (Yield)	12.4	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength (Yield)	12.4	MPa	ASTM D790
Compressive Strength	11.0	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	400	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	48.9	°C	ASTM D648
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.72		ASTM D150
Dissipation Factor (1 MHz)	0.078		ASTM D150
Arc Resistance	130	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		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	21.1 - 37.8	°C	
Injection Pressure	68.9 - 103	MPa	

Recommended distributors for this material

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