

Ultradur® B 2520

Polybutylene Terephthalate

BASF Corporation

Message:

Very easy flowing grade unreinforced injection molding grade for thin-walled parts (e.g. automotive connectors, switches, relay parts).

General Information			
Features	Good Flow		
Uses	Automotive Applications		
	Connectors		
	Switches		
	Thin-walled Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PBT		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm ³	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	55.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number ¹	105	cm ³ /g	ISO 307
Mold Shrinkage ²			
free, longitudinal	1.5	%	
free, transverse	1.5	%	
Maximum Service Temperature - short cycle operation	200	°C	
Temperature Index - at 50% loss of tensile strength			IEC 60216
-- ³	140	°C	
-- ⁴	120	°C	
ISO Type	PBT, M+H+LGHLN, 11-030		ISO 7792

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ISO 527-2
Tensile Stress (Yield)	57.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.1	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	70	kJ/m ²	
23°C	170	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/A
Melting Temperature	223	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	1.3E-4 to 1.6E-4	cm/cm/°C	ISO 11359-2
Specific Heat	1500	J/kg/°C	
Thermal Conductivity	0.27	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+18	ohms · cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.30		
1 MHz	3.30		
Dissipation Factor			IEC 60250
100 Hz	1.3E-3		
1 MHz	0.020		
Comparative Tracking Index			IEC 60112
Solution A	500	V	
Solution B	450	V	
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	HB		
1.60 mm	HB		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	250 to 275	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	solution 0,005 g/ml Phenole/1,2 Dichlorbenzol 1:1		
2.	plate with film gate 150*150*3 mm ³		
3.	5000 h		
4.	20000 h		

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