Ultrason® E 2010 G4 MR SW 15102

Polyethersulfone

BASF Corporation

Message:

Ultrason® pellets are supplied in bags and/or octabins. The bulk density ranges between 700 and 800 g/l. Provided the packaging remains undamaged, Ultrason® can be stored indefinitely. Ultrason® pellets absorb moisture very rapidly. Therefore, the pellets need to be dried at least 4h at 130°C to 150°C in a vacuum or dry air drier prior to processing.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.50	g/cm³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm³	
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)	29.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.61	%	
Flow	0.36	%	
Water Absorption			ISO 62
Saturation, 23°C	1.6	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Viscosity Number [1]	56.0	cm³/g	ISO 307
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	205	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7300	MPa	ISO 527-2
Tensile Stress (Break)	125	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	47	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	6.5	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	°C	ISO 75-2/A
Glass Transition Temperature [2]	225	°C	ISO 11357-2
CLTE - Flow			

23 to 80°C	2.0E-5	cm/cm/°C	ISO 11359-2
180°C	2.3E-5	cm/cm/°C	DIN 53752
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.00 mm	V-0		
Additional Information	Nominal Value		
Polymer Abbreviation	PESU-GF20		
Screw Speed	< 300	mm/sec	
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0	°C	
Rear Temperature	350	°C	
Middle Temperature	360	°C	
Front Temperature	370	°C	
Nozzle Temperature	370	°C	
Processing (Melt) Temp	350 to 390	°C	
Mold Temperature	150 to 190	°C	
NOTE			
1.	in 0,01 g/ml Phenol/1,2, ortho-Dichlorbenzol, 1:1		
2.	10°C/min		

Recommended distributors for this material

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