RALUPOL® UP 8601

Thermoset Polyester

RASCHIG GmbH

Message:

Glass-fibre reinforced Polyester moulding compound
Mould shrinkage similar to phenolic moulding compounds, low post-shrinkage, good electrical values, excellent heat resistance, good mechanical strength, good mechanical strength, excellent surface quality and excellent colour stability (non-yellowing).
Primary application(s): Oven fittings
This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS)

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Color Stability Good Electrical Properties Good Strength Good Surface Finish High Heat Resistance Low Shrinkage		
Uses	Appliance Components		
Agency Ratings	EU 2002/96/EC (WEEE) EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.90 to 2.10	g/cm³	ISO 1183
Apparent Density	0.75 to 1.00	g/cm³	ISO 60
Molding Shrinkage - Flow [1]	0.60 to 0.90	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.55	%	ISO 62
Post Shrinkage [2]	< 0.10	%	ISO 2577
Maximum Service Temperature			IEC 60216
<50 h	200	°C	
20,000 h	150	°C	
Compression Molding Molding Pressure	> 10.0	MPa	
Compression Molding Temperature	165 to 180	°C	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	10000 to 12000	MPa	ISO 527-2
Tensile Stress (Injection Molded)	40.0 to 70.0	MPa	ISO 527-2
Flexural Modulus (Injection Molded)	14000 to 16000	MPa	ISO 178

Flexural Stress (Injection Molded)	90.0 to 120	MPa	ISO 178
Compressive Stress	150 to 200	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Injection Molded)	2.0 to 4.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (Injection Molded)	5.0 to 10	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, Unannealed	140 to 170	°C	ISO 75-2/A
8.0 MPa, Unannealed	70.0 to 130	°C	ISO 75-2/C
CLTE - Flow (50 to 100°C)	4.0E-5 to 5.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.50 to 0.60	W/m/K	ASTM E1461
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12 to 1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13 to 1.0E+14	ohms·cm	IEC 60093
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, Tested by RASCHIG)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Middle Temperature	50.0 to 70.0	°C	
Front Temperature	80.0 to 100	°C	
Processing (Melt) Temp	100 to 115	°C	
Mold Temperature	165 to 180	°C	
Back Pressure	1.00 to 1.50	MPa	
Screw Speed	70 to 100	rpm	
NOTE			
1.	Injection Molded		
2.	168 h / 110°C		

Recommended distributors for this material

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