Edistir® RC 600

Medium Impact Polystyrene

Versalis S.p.A.

Message:

Special medium impact polystyrene grade exhibiting very high gloss.
This grade is designed to be used in injection moulding where is required an excellent surface finish.
Designation: Thermoplastics ISO 2897-PS-I,M,O88-O6-04-18
Applications
Examples of application are consumer electronics, office furnishings, internal components of refrigerators, sanitary and household wares, jewel and cosmetic boxes.

General Information	
UL YellowCard	E157138-101325088
Features	Highlight Compliance of Food Exposure Excellent appearance Medium impact resistance
Uses	Cosmetic Packaging Electrical/Electronic Applications Home appliance components Household goods Business equipment Bathroom products
Agency Ratings	Europe No 10/2011
UL File Number	E83071
Appearance	Natural color
Forms	Particle
Processing Method	Injection molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Apparent Density	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	80		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1950	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	29.0	MPa	ISO 527-2/50
Fracture	24.5	MPa	ISO 527-2/50
Tensile Strain (Break)	40	%	ISO 527-2/50
Flexural Stress [1]	53.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C, 3.20 mm	70	J/m	ISO 180/4A
-30°C	3.5	kJ/m²	ISO 180/1A
23°C	5.5	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	81.0	°C	ASTM D648
Vicat Softening Temperature			
--	96.0	°C	ISO 306/A50
--	88.0	°C	ISO 306/B50
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ISO 8302
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.5E+15	ohms	IEC 60093
Volume Resistivity	> 7.0E+15	ohms·cm	IEC 60093
Dielectric Strength	65	kV/mm	IEC 60243-1
Dielectric Constant (50 Hz)	2.50		IEC 60250
Dissipation Factor (50 Hz)	3.0E-4		IEC 60250
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, All Colors)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	650	°C	IEC 60695-2-13
Additional Information	**Nominal Value**		
Designation	Thermoplastics ISO 2897-PS-I,M,088-06-04-18		
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	200 - 250	°C	
Mold Temperature	40.0 - 75.0	°C	
Injection instructions			
Predrying normally not required			
NOTE			
1.	2.0 mm/min		

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