VALOX™ FR RESIN SLWM2105

DESCRIPTION

VALOX SLWM2105 resin is based on Polycarbonate / Polyester blend containing proprietary fillers. Added features of this grade include: Permanently Anti-Static.

GENERAL INFORMATION	
Features	Antistatic, No PFAS intentionally added
Fillers	Proprietary Filler
Polymer Types	Polycarbonate + PBT (PC+PBT)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20241025

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 50 mm/min	46	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	46	MPa	ASTM D638
Tensile Strain, yld, Type I, 10 mm/min	20	%	SABIC - Japan Method
Tensile Strain, brk, Type I, 10 mm/min	20	%	SABIC - Japan Method
Tensile Modulus, 5 mm/min	2420	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	77	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2300	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched, 23°C	41	J/m	ASTM D256
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	161	°C	ASTM D648
PHYSICAL [1]			
Specific Gravity	1.32	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm [2]	1.5 – 1.8	%	SABIC method
Melt Flow Rate, 250°C/1.2 kgf	30	g/10 min	ASTM D1238
ELECTRICAL [1]			
Surface Resistivity [3]	9.E+12	Ω	ASTM D257
INJECTION MOLDING [4]			
Drying Temperature	110	°C	
Drying Time	3 – 5	Hrs	
Melt Temperature	230 – 260	°C	
Nozzle Temperature	240 – 260	°C	
Front - Zone 3 Temperature	240 – 260	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	230 – 250	°C	
Rear - Zone 1 Temperature	220 – 240	°C	
Mold Temperature	30 – 60	°C	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(3) Measurement meets requirements as specified in ASTM D4496.
(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

DISCLAIMER