

VALOX™ FR Resin SLWM2105
(PC+PBT)

Saudi Basic Industries Corporation (SABIC)

Product Texts

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

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 30 | g/10min | ASTM D 1238 |
| Temperature | 250 | °C | - |
| Load | 1.2 | kg | - |
| Mold Shrinkage, MD | 0.0165 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------------|-------|------|-----------------|
| ASTM Data | | | |
| Tensile Modulus | 2420 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 46 | MPa | ASTM D 638 |
| Tensile Strength at Break | 46 | MPa | ASTM D 638 |
| Flexural Modulus | 2300 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 41 | J/m | ASTM D 256 |
| Other Standards^{S1} | | | |
| Elongation at Yield | 20 | % | Producer Method |
| Elongation at Break | 20 | % | Producer Method |

S: These properties are reported by the producer according standards that are different to our defaults.

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| ASTM Data | | | |
| DTUL @ 66 psi | 161 | °C | ASTM D 648 |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|-------|------|---------------|
| ASTM Data | | | |
| Surface Resistivity | 9E12 | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1320 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 110 | °C | - |
| Pre-drying - Time | 3 - 5 | h | - |
| Melt temperature | 230 - 260 | °C | - |
| Mold temperature | 30 - 60 | °C | - |
| Zone 1 | 220 - 240 | °C | - |
| Zone 2 | 230 - 250 | °C | - |
| Zone 3 | 240 - 260 | °C | - |
| Nozzle temperature | 240 - 260 | °C | - |

Characteristics

Processing

Injection Molding

Additives

Release agent, Metal deactivator

Special Characteristics

Anti-static, Heat stabilized or stable to heat

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America