

Technical Data Sheet

Icorene 9909 NAT 0000

Polycarbonate

Product Description

Icorene 9909 is a polycarbonate powder that has been specifically developed for rotational moulding. This grade exhibits an excellent balance of transparency, stiffness and toughness. *Icorene* 9909 is UV stabilised and is suitable for applications requiring high temperature resistance. Moreover, this grade is UL94 V2 flame retardant (Schulman R&D test).

Processing Method	Rotomolding
Attribute	Good Stiffness; Good Toughness; High Clarity; High Heat Resistance; UV Resistant
Forms	Powder
Appearance	Clear/Transparent; Natural Color; Unspecified Color
Additive	Flame Retardant; UV Stabilizer
Application	Lighting Fixtures

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	19	g/10 min	ISO 1133
Density	1.2	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	65	MPa	ISO 527-2
Flexural Modulus	2350	MPa	ISO 178
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	148	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	140	°C	ISO 75-2
Deflection Temperature Under Load Unannealed (1.80 MPa)	128	°C	ISO 75-2/A
Electrical			
Thermal Conductivity, (23 °C)	0.20	W/m/K	ISO 8302
Optical			
Light Transmittance, (3000 µm)	89.0	%	ISO 13468
UL Information			
Flame Rating, (Internal Method)	V-2		UL 94