

Technical Data Sheet

Icorene N9903-2000 NAT 0000



Acrylic, Polymethyl Methacrylate

Product Description

Icorene N9903 is a Polymethyl Methacrylate Acrylic (PMMA) material. This grade is used for masterbatch applications

Forms Powder

Application Masterbatch

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/3.8 kg)	15	g/10 min	ISO 1133
Density	1.18	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break	5	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Tensile Stress at Break	65	MPa	ISO 527-2
Impact			
Charpy Impact Strength - Notched, (Type 2, Notch C)	2.0	kJ/m ²	ISO 179
Notched Izod Impact Strength, (Type 1, Notch A)	1.8	kJ/m ²	ISO 180
Hardness			
Rockwell Hardness, (M-Scale)	89		ASTM D785
Thermal			
Vicat Softening Temperature, (B (50N))	90.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	82	°C	ISO 75-2/B
DSC Melting Point, (Internal Method)	200	°C	ISO 3146
Optical			
Haze	0.5	%	ASTM D1003
Light Transmittance	92	%	ASTM D1003