PLEXIGLAS® Hi-Gloss NTA-5 black 9V022

PMMA — Röhm GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**1.3**	cm³/10min	ISO 1133
Temperature	**230**	°C	-
Load	**3.8**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2100**	MPa	ISO 527
Yield stress	**54**	MPa	ISO 527
Yield strain	**5**	%	ISO 527
Nominal strain at break	**48**	%	ISO 527
Charpy impact strength, +23°C	**110**	kJ/m²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Glass transition temperature, 10°C/min	**113**	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	**96**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**102**	°C	ISO 75-1/-2
Vicat softening temperature, B	**103**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**110**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

Other properties	Value	Unit	Test Standard
Water absorption	**1.5**	%	Sim. to ISO 62
Humidity absorption	**0.5**	%	Sim. to ISO 62
Density	**1160**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**>4**	h	-
Melt temperature	**230 - 260**	°C	-
Mold temperature	**60 - 80**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Special Characteristics
High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features
Amorphous, High Gloss

Chemical Resistance
Environmental Stress Crack Resistance

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa