TER Plastics



PLEXIGLAS® Hi-Gloss NTA-5 black 9V022

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	1.3	cm ³ /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, 50°C/h 50N	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
ISO Data			
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 - 80	°C	-
Pre-drying - Time	≥4	h	-
Melt temperature	230 - 260	°C	-
Mold temperature	60 - 80	°C	-

Characteristics

Processing	Features
Injection Molding	Amorphous

Delivery form Pellets, Black

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

Chemical Resistance Environmental Stress Crack Resistance

Applications

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