

Product Texts

Injection moulding grade with enhanced toughness and resistance to heat distortion. Especially suitable for exterior automotive components (eg radiator grills, rear end applique panels and mirror housings).

Rheological properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Melt volume-flow rate (MVR)	5	cm ³ /10min	ISO 1133
Temperature	220	°C	ISO 1133
Load	10	kg	ISO 1133
Molding shrinkage (parallel)	0.5	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.9	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Tensile Modulus	2500	MPa	ISO 527-1/-2
Yield stress	54	MPa	ISO 527-1/-2
Yield strain	3.4	%	ISO 527-1/-2
Nominal strain at break	8	%	ISO 527-1/-2
Tensile creep modulus (1000h)	1250	MPa	ISO 899-1
Charpy impact strength (+23 °C)	250	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30 °C)	90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23 °C)	15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30 °C)	4	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Temp. of deflection under load (1.80 MPa)	103	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	106	°C	ISO 75-1/-2
Vicat softening temperature (50 °C/h 50N)	104	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	95	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	UL	-	-
Oxygen index	19	%	ISO 4589-1/-2

Electrical properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Relative permittivity (100Hz)	3.9	-	IEC 60250
Relative permittivity (1MHz)	3.5	-	IEC 60250
Dissipation factor (100Hz)	90	E-4	IEC 60250
Dissipation factor (1MHz)	330	E-4	IEC 60250
Volume resistivity	1E12	Ohm*m	IEC 60093
Surface resistivity	1E13	Ohm	IEC 60093
Electric strength	35	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112

Other properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Water absorption	1.65	%	Sim. to ISO 62
Humidity absorption	0.35	%	Sim. to ISO 62
Density	1070	kg/m ³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
CAMPUS/ISO Data			
Thermal conductivity of melt	0.16	W/(m K)	-

Spec. heat capacity melt	2000	J/(kg K)	-
Ejection temperature	95	°C	-

Test specimen production	Value	Unit	Test Standard
CAMPUS/ISO Data			
Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 10724
Injection Molding, injection velocity	200	mm/s	ISO 294

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

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

Other text information

Injection molding

PREPROCESSING

Pre/Post-processing, Pre-drying, Temperature: 80 °C

Pre/Post-processing, Pre-drying, Time: 2 - 4 h

PROCESSING

injection molding, Melt temperature, range: 240 - 280 °C

injection molding, Melt temperature, recommended: 250 °C

injection molding, Mold temperature, range: 40 - 80 °C

injection molding, Mold temperature, recommended: 60 °C