

Product Texts

- MVR (300 °C/1.2 kg) 12 cm³/10 min
- medium viscosity
- UV stabilized
- optical lenses

For: Optical lenses.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2400	MPa	ISO 527
^[C] Yield stress	63	MPa	ISO 527
^[C] Yield strain	6	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Flexural strength	96	MPa	ISO 178
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Izod notched impact strength, +23°C	72	kJ/m ²	ISO 180/1A
Izod notched impact strength	72	kJ/m ²	ISO 180/1A
Temperature	-10	°C	-
^[C] Puncture - maximum force, +23°C	5500	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	6400	N	ISO 6603-2
^[C] Puncture energy, +23°C	65	J	ISO 6603-2
^[C] Puncture energy, -30°C	73	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	140	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	147	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Glow Wire Flammability Index (GWFI)	875	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.8	mm	-
Glow Wire Flammability Index (GWFI)	900	°C	IEC 60695-2-12
GWFI - thickness tested (2)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	900	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.8	mm	-
Glow Wire Ignition Temperature (GWIT)	930	°C	IEC 60695-2-13
GWIT - thickness tested (2)	3	mm	-

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
ISO Data			
^[C] Luminous transmittance	90	%	ISO 13468-1, -2
ASTM Data			
Haze	0.5	%	ASTM D 1003

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1190	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	290	°C	-
Mold temperature	70 - 110	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather, Transparent

Regional Availability

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