

Product Texts

FDA compliant (color limited) PC. 2.5 MFR. Potable water/extrusion blowmoldable. ILLUMINATE special effects (fluorescent/edge glow colors).

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	65	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	110	%	ASTM D 638
Flexural Modulus	2340	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Taber Abrasion Resistance	10	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	747	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	3200	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	68.4	E-6/K	ASTM D 696
DTUL @ 66 psi	137	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648
Vicat Temperature	157	°C	ASTM D 1525
Thermal Conductivity, solid state	0.0274	W/(m K)	ASTM C 177
Specific Heat	1250	J/(kg K)	ASTM C 351

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.58	%	ASTM D 570
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	115 - 120	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	265 - 275	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	260 - 275	°C	-
Zone 2	260 - 275	°C	-
Zone 3	260 - 275	°C	-
Zone 4	260 - 275	°C	-
Zone 5	260 - 275	°C	-
Nozzle temperature	270 - 280	°C	-

Characteristics

Processing

Other Extrusion, Blow Molding

Applications

Electrical and Electronical, Packaging

Certifications

Food contact, Food approval FDA 21 CFR

Regional Availability

North America, Europe, Asia Pacific, South and Central America