

Styrolux 4G60

TECHNICAL DATASHEET

DESCRIPTION

Styrolux 4G60 (former BX 64138) is a new clear styrene-butadiene copolymer (SBC) designed specifically for in-jection molding of parts with an excellent balance of transparency and ductility.

FEATURES

- High clarity
- Ductile and impact resistant

APPLICATIONS

- Medical devices
- Toys
- Caps and lids

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	15
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	4
Tensile Stress at Yield, 23 °C	ISO 527	MPa	14
Tensile Strain at Yield, 23 °C	ISO 527	%	1,5
Tensile Modulus	ISO 527	MPa	900
Hardness, Shore D	ISO 868	-	42
Hardness, Shore A	ISO 868	-	97
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	45
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	50
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	64
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	60-90
Electrical Properties			
Dissipation Factor (100 Hz)	IEC 60250	10 ⁻⁴	3
Volume Resistivity	IEC 60093	Ohm*m	1013
Surface Resistivity	IEC 60093	Ohm	1015

Property, Test Condition	Standard	Unit	Values
Comparative Tracking Index	IEC 60112	V	600
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1,57
Haze	ASTM D 1003	%	1,5
Other Properties			
Density	ISO 1183	kg/m ³	1020
Water Absorption, Saturated at 23 °C	ISO 62	%	0,07
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0,3-1,0
Melt Temperature Range	ISO 294	°C	180-250
Mold Temperature Range	ISO 294	°C	30-50