

Styrolux® 3G33

Styrene Butadiene Block Copolymer

BASF Corporation

Product Description

Styrolux 3G33 is a thermoplastic styrene-butadiene block copolymer which is suitable for injection molding, extrusion and thermoforming. It offers an outstanding combination of crystal clarity and good toughness.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Impact Modifier		
Features	• Good Toughness	• High Clarity	• Impact Modified
Agency Ratings	• FDA Unspecified Rating	• USP Class VI	
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	
	• Film Extrusion	• Thermoforming	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	--	1.02 g/cm ³	ASTM D792
	--	1020 kg/m ³	ISO 1183 ²
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)		11 g/10 min	ASTM D1238
Melt volume-flow rate (200°C/5.0 kg)		12.0 cm ³ /10min	ISO 1133 ²
Molding Shrinkage - Flow		0.65 %	ASTM D955
Water Absorption (Saturation, 23°C)		0.070 %	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C ³	1720 MPa		ASTM D638
--	1600 MPa		ISO 527-2 ²
Tensile Strength			
Yield, 23°C	28.3 MPa		ASTM D638
Yield	32.0 MPa		ISO 527-2 ²
Tensile Strain			
Yield	2.0 %		ISO 527-2 ²
Break, 23°C	100 %		ASTM D638
Nominal strain at break	40 %		ISO 527-2 ²
Flexural Modulus			
23°C	1480 MPa		ASTM D790
23°C	1750 MPa		ISO 178
Flexural Strength			
23°C	31.0 MPa		ASTM D790
23°C	45.0 MPa		ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	4.00	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength			ISO 179
-30°C	30	kJ/m ²	
23°C	100	kJ/m ²	
Notched Izod Impact (23°C)	27.0	J/m	ASTM D256
Unnotched Izod Impact Strength (23°C)	3.50	kJ/m ²	ISO 180
Instrumented Dart Impact (Total Energy)	5.00	J	ASTM D3763

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	82.0	°C	ASTM D648
0.45 MPa	77.0	°C	ISO 75-2 ²
1.8 MPa, Unannealed	66.0	°C	ASTM D648
1.8 MPa	63.0	°C	ISO 75-2 ²
Vicat Softening Temperature			
--	91.0	°C	ASTM D1525 ⁴
50°C/h, B (50N)	56.0	°C	ISO 306 ²
CLTE			
Flow	0.000075	cm/cm/°C	ISO 11359-2
Transverse	0.000072	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257 IEC 60093 ²
Volume Resistivity			
--	> 1.0E+13	ohm·cm	ASTM D257
--	> 1.0E+11	ohm·m	IEC 60093 ²
Dielectric Constant			
1.00 mm, 1 MHz	2.50		ASTM D150
100 Hz	2.50		IEC 60250 ²
1 MHz	2.50		IEC 60250 ²
Comparative tracking index	600		IEC 60112 ²
Electric Strength (1.50 mm)	140	kV/mm	IEC 60243-1
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.573		ASTM D542
Transmittance	92.0	%	ASTM D1003
Haze (25.4 µm, Blown Film)	0.21	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 250	°C	
Mold Temperature	30.0 to 50.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
³ 51 mm/min
⁴ Rate B (120°C/h), Loading 1 (10 N)

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