

Styrolux® BX6400

Styrene Butadiene Block Copolymer

INEOS Styrolution Group GmbH

Message:

Styrolux BX6400 is a developmental styrene butadiene copolymer (SBC) of high clarity and ultimate toughness used mainly in sheet and film extrusion and thermoforming applications. It is specifically designed for improved performance in blends with general-purpose polystyrene, providing parts with an excellent balance of toughness and transparency.

General Information	
Features	Block Copolymer
	Good Toughness
	High Clarity
Uses	Blending
	Cups
	Film
	Food Packaging
	Food Service Applications
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Film Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	12.0	cm³/10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	97		
Shore D	58		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	15.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.0	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 300	%	ISO 527-2
Flexural Modulus	900	MPa	ISO 178
Flexural Stress			
5.0% Strain	18.0	MPa	

--	18.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	85	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			
23°C	No Break		ASTM D256, ISO 180/A
-30°C	4.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	35.0	°C	ISO 306/A50
--	67.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Optical	Nominal Value	Unit	Test Method
Transmittance (550 nm)	89.0	%	ASTM D1003
Haze	3.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	

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