

# Osterlene® HIPS03.503

High Impact Polystyrene

Osterman & Company

## Message:

HIPS03.503 is a super high impact polystyrene designed for applications requiring extra toughness without sacrificing mechanical properties.

It has excellent falling dart impact which, combined with the high gloss, makes it a candidate for some ABS applications.

This polymer is superior for co-extrusion of high gloss sheet.

HIPS03.503 has unique capabilities for deepdraw thermoforming with good side wall distribution.

General Information			
Features	Highlight		
	Impact resistance, high		
	Good toughness		
Uses	Sheet		
Agency Ratings	FDA 21 CFR 177.1640		
Processing Method	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Flexural Strength	43.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Instrumented Dart Impact	18.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	88		ASTM D523

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

