

Osterlene® HIE-4-1.9

High Impact Polystyrene
Osterman & Company

Message:

HIE-4-1.9 is an impact polystyrene designed for extrusion and injection molding.
It is especially suitable for extrusion thermoforming applications requiring high gloss and high stiffness, such as food service disposables.
A unique combination of thermal characteristics favor HIE-4-1.9 for fast injection cycles in high gloss small appliance and electronics applications.

General Information	
Features	Disposable
	Fast Molding Cycle
	Food Contact Acceptable
	High Gloss
	High Impact Resistance
	High Stiffness
Uses	Appliances
	Electrical/Electronic Applications
	Food Service Applications
	Non-specific Food Applications
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength (Yield)	29.6	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	57.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Gardner Impact	14.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	98.9	°C	ASTM D1525

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss	90	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

