

Osterlene® HD1851

High Density Polyethylene

Osterman & Company

Message:

HD1851 is an injection molding resin that has good processability and ESCR.

Applications for HD1851 include toys, containers and housewares.

HD1851 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply. Contact your Osterman sales representative for more information.

General Information			
Uses	Household goods		
	Container		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	18	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	< 10.0	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	23.4	MPa	ASTM D638
Tensile Elongation ² (Break)	530	%	ASTM D638
Flexural Modulus	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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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

