

INEOS HDPE T50-4400-119

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

T50-4400-119 is a high-flow, high density polyethylene copolymer intended for high speed injection molding of thin wall containers. This material will allow for cycle time reduction while still imparting reasonable impact strength. This resin meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High Flow		
Uses	Thin-walled Containers		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	44	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	1.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	26.2	MPa	
Break	26.2	MPa	
Tensile Elongation ²			ASTM D638
Yield	7.8	%	
Break	7.7	%	
Flexural Modulus - Tangent	1200	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	2.60	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	66.1	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	118	°C	ASTM D1525

NOTE

1. 51 mm/min
2. 51 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

