

Braskem PE HDI4553

High Density Polyethylene

Braskem IDESA

Message:

HDI4553 is a high-flow, high density polyethylene copolymer intended for 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.

Applications:

Thin wall applications. Cultured dairy containers, margarine tubs and containers for frozen products.

Process:

Injection Molding.

General Information			
Features	Copolymer		
	Impact resistance, good		
	Fast molding cycle		
	High liquidity		
Uses	Thin wall parts		
	Thin wall container		
	Container		
	Food container		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	45	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Flexural Modulus - Tangent	1.21	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525

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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



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