

Braskem PE SHD7255LS-L

High Density Polyethylene

Braskem

Message:

SHD7255LS-L is a high-density polyethylene, developed for the injection molding with good tenacity and impact properties combined with a good stiffness. It presents a radio between melt flow and density that provides excellent mechanical properties. This resin has additives against the action of ultraviolet radiation. The minimum biobased content of this grade is 94%, determined according to ASTM D6866.

Application:

Boxes for frozen food and horticultural products; Industrial containers and boxes for general use.

General Information			
Additive	UV Stabilizer		
Features	BPA Free		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Good UV Resistance		
	Renewable Resource Content		
Uses	Containers		
	Food Containers		
	Industrial Containers		
Agency Ratings	ASTM D 6866		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.954	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	< 5.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	27.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1270	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	74.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525 ²
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 94	%	ASTM D6866
NOTE			
1.	0.3 mm notched-plaques		
2.	Loading 1 (10 N)		

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