

Braskem PE SHA7260

High Density Polyethylene

Braskem

Message:

SHA7260 is a high-density polyethylene, developed for the injection molding, easy to process and with high productivity. This resin has a good melt flow with high rigidity and hardness. Its narrow molar mass distribution results in a low tendency to warpage. The minimum biobased content of this grade is 94.5%, determined according to ASTM D6866.

General Information			
Features	BPA Free		
	Food Contact Acceptable		
	Good Flow		
	Good Processability		
	High Hardness		
	High Rigidity		
	Low Warpage		
	Narrow Molecular Weight Distribution		
	Renewable Resource Content		
Uses	Caps		
	Closures		
	Household Goods		
	Lids		
	Pails		
	Thin-walled Parts		
	Toys		
Agency Ratings	ASTM D 6866		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.955	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	< 4.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	64		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	29.0	MPa	ASTM D638
Tensile Elongation (Yield, Compression Molded)	7.2	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	25	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	124	°C	ASTM D1525 ²
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 95	%	ASTM D6866
NOTE			
1.	0.3 mm notched-plaques		
2.	Loading 1 (10 N)		

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