

MCGB DuraMaze™ CCHDPE8020

High Density Polyethylene

MCG BioComposites, LLC

Message:

MCGB Duramaze™ CC HDPE 8020 is a proprietary blend of corn cob fiber and high density polyethylene for injection molding applications in Consumer Products, Agriculture, Industrial, and Lawn & Garden. This material has been determined to be GRAS (Generally Recognized as Safe) by the FDA.

General Information			
Filler / Reinforcement	Corn Cob Flour		
Features	Renewable Resource Content		
Uses	Agricultural Applications		
	Consumer Applications		
	Industrial Applications		
	Lawn and Garden Equipment		
Agency Ratings	FDA GRAS (Generally Recognized as Safe)		
Appearance	Light Brown		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ASTM D1505
Molding Shrinkage			ASTM D955
Flow	1.9	%	
Across Flow	1.7	%	
Moisture	< 1.0	%	
Particle Size - typical	396	µm	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1730	MPa	ASTM D638
Tensile Strength (Yield)	25.6	MPa	ASTM D638
Tensile Elongation (Yield)	6.1	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	J/m	ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	104	°C	
Suggested Max Moisture	0.50	%	
Rear Temperature	177 to 182	°C	
Middle Temperature	177 to 182	°C	
Front Temperature	182 to 191	°C	
Nozzle Temperature	182 to 191	°C	
Processing (Melt) Temp	< 188	°C	
Mold Temperature	15.6 to 76.7	°C	

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Recommended distributors for this material

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