CERTENE™ PBM-20

Polypropylene Impact Copolymer

Muehlstein

Message:

PBM-20 is a certified prime grade Impact injection molding copolymer designed for applications requiring excellent balance of stiffness and impact resistance. PBM-20 offers improved processability, high flow rate, fast cycling, very good dimensional stability, and very good impact resistance at low temperatures. PBM-20 applications include automotive parts and interior trim, appliance and furniture parts, pet carriers, toys, large or heavy parts, caps, closures and housewares. PBM-20 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and most international regulations concerning the use of Polypropylene in contact with food.

General Information	
Features	Good dimensional stability
	Rigid, good
	Impact copolymer
	Impact resistance, high
	Workability, good
	Fast molding cycle
	High liquidity
	Low temperature impact resistance
	Compliance of Food Exposure
Uses	Industrial components
	Shield
	Home appliance components
	Furniture
	Household goods
	Application in Automobile Field
	Car interior equipment
	Toys
Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i)
	FDA 21 CFR 177.1520(c) 3.1
	FDA 21 CFR 177.1520(c) 3.2
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	81		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield, Injection Molded)	21.9	MPa	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	1080	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, Injection Molded)	160	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	88.0	°C	ASTM D648
Vicat Softening Temperature	132	°C	ASTM D1525

Additional Information
All specimens were injection molded according to ASTM D2146 Type 1.

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min

Recommended distributors for this material

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