



CERTENE™ PBM-35

Channel Prime Alliance - Polypropylene Impact Copolymer

Friday, September 20, 2019

General Information

Product Description

PBM-35 is a certified prime grade Impact copolymer designed for injection molding of applications requiring optimal balance of stiffness and impact resistance. PBM-35 offers improved processability, high melt flow for easy filling multicavity and intricate mold geometry, fast cycling, and very good dimensional stability. PBM-35 applications include automotive interior trim, thin-walled parts, toys, overcaps, closures and household goods. PBM-35 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

Material Status	• Commercial: Active
Availability	• North America
Features	<ul style="list-style-type: none"> • Fast Molding Cycle • Food Contact Acceptable • Good Dimensional Stability • Good Processability • Good Stiffness • High Flow • High Impact Resistance • Impact Copolymer
Uses	<ul style="list-style-type: none"> • Automotive Interior Trim • Caps • Household Goods • Thin-walled Parts • Toys
Agency Ratings	<ul style="list-style-type: none"> • 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	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	26.2	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	69	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	83		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, Injection Molded	103	°C	ASTM D648
Vicat Softening Temperature	135	°C	ASTM D1525

Additional Information

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

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 1.3 mm/min