

CERTENE™ PBS-4

High Melt Strength Polypropylene
Muehlstein

Message:

PBS-4 is a certified prime grade Impact copolymer specially designed for extrusion of sheet for thermoforming of food packaging applications. PBS-4 combines good thermal stability with good melt strength, good Toughness and Stiffness, optimal stability of melt that minimizes potential sheet thickness variations, and very good organoleptic properties. PBS-4 other applications include injection molding of household goods, food containers and medical articles. PBS-4 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	Rigid, good		
	High melt stability		
	Impact copolymer		
	Good sensory characteristics		
	Good melt strength		
	Thermal stability, good		
	Good toughness		
	Compliance of Food Exposure		
Uses	Household goods		
	Food container		
	Medical/nursing supplies		
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	Sheet extrusion molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	26.5	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	8.0	%	ASTM D638

Flexural Modulus - 1% Secant ³ (Injection Molded)	1190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	86.0	°C	ASTM D648
Vicat Softening Temperature	144	°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		

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