

CERTENE™ PHB-07

High Melt Strength Polypropylene

Muehlstein

Message:

PHB-07 is a certified prime grade Polypropylene designed for specialty applications requiring superior tensile strength and toughness. PHB-07 combines excellent processability with high degree of thermal stabilization, high melt strength and outstanding mechanical properties of end-products. PHB-07 applications include blow molding, strapping tape, thin-wall sheet thermoforming, small diameter pipe and profiles. PHB-07 recommended processing temperature is between 210° to 230°C. PHB-07 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food.

General Information	
Features	Ultra high toughness High tensile strength Homopolymer Workability, good Good melt strength Thermal stability, good Compliance of Food Exposure
Uses	Thin wall parts Blow molding applications Strap Piping system Belt material Sheet Profile
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Thermoforming Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1690	MPa	ASTM D638
Tensile Strength ¹ (Yield, Injection Molded)	37.2	MPa	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	60	%	ASTM D638

Flexural Modulus - 1% Secant ³ (Injection Molded)	1650	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)	114	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525
Additional Information			
All specimens were injection molded according to ASTM D2146 Type 1.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	98.9 - 110	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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