

Jampilen HP540K

Polypropylene Homopolymer

Jam Polypropylene Company

Message:

Jampilen HP540K is a polypropylene homopolymer particularly suitable for thermoforming applications. This grade offers high stiffness, excellent processability, good contact clarity and high gloss. Jampilen HP540K is increasingly used for the extrusion of sheet for thermoforming. Jampilen HP540K is also used for coextruded multilayer sheet with high barrier properties to produce retortable containers. In thermoforming, polypropylene offers some distinct advantages over conventional materials like PVC and PS. Polypropylene gives extensive food contact credentials, a good toughness-stiffness balance and excellent high temperature and chemical resistance. Moreover, polypropylene offers easy recycling and is environmentally sound. Jampilen HP540K is suitable for food contact.

General Information			
Features	Balanced Stiffness/Toughness		
	Barrier Resin		
	Contact Clarity		
	Environmentally Sound		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Drawdown		
	Good Processability		
	High Gloss		
	High Heat Resistance		
	High Strength		
	Homopolymer		
	Recyclable Material		
Uses	Containers		
	Cups		
	Food Containers		
	Packaging		
	Support Trays		
Processing Method	Sheet Extrusion		
	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)	3.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield)	36.0	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	114	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525 ¹
Accelerated Oven Ageing (150°C)	360	hr	ASTM D3012
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	65		ASTM D2457
Haze	32	%	ASTM D1003
NOTE			

1. Loading 1 (10 N)

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