Propak® 7185

Polypropylene Copolymer

PolyPacific Pty. Ltd.

Message:

Propak 7185 is a 40% talc filled copolymer polypropylene compound. It is a high flow injection moulding grade developed for thin walled rigid components and is manufactured in accordance with Australian Standard AS 2070, "Plastic Materials for Food Contact Use". The ingredients used in this formulation are referenced in the US Code of Federal Regulations, Volume 21.

General Information			
Filler / Reinforcement	Talc,40% Filler by Weight		
Features	Copolymer Food Contact Acceptable High Flow Low Shrinkage		
Uses	Appliances Closures Food Packaging Household Goods Housings Thin-walled Parts		
Agency Ratings	AS 2070-1999		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60 to 1.0	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 3.00 mm)	88		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	77		
Shore D, 15 sec, 3.00 mm	66		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.00 mm)	24.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.00 mm)	11	%	ASTM D638
Flexural Modulus (3.00 mm)	3200	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (3.00 mm)	30	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	127	°C	
1.8 MPa, Unannealed, 3.00 mm	73.0	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	6.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Regrind	10	%	
Processing (Melt) Temp	200 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	50 mm/min		
2.	50 mm/min		

Recommended distributors for this material

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