

Retpol® 4017 UV2

Polypropylene Homopolymer

PolyPacific Pty. Ltd.

Message:

Propak 4017 UV2 is a 35 % wollastonite filled homopolymer polypropylene compound. It is a medium flow injection moulding grade developed for rigid components and is manufactured in accordance with Australian Standard AS 2070, "Plastic Materials for Food Contact Use". It is stabilised to provide protection against UV radiation. The ingredients used in this formulation are referenced in the US Code of Federal Regulations Volume 21.

General Information			
Filler / Reinforcement	Wollastonite (CaSiO3),35% Filler by Weight		
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Homopolymer		
	Medium Flow		
Agency Ratings	AS 2070-1999		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	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)	100		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	80		
Shore D, 15 sec, 3.00 mm	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	32.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	17	%	ASTM D638
Flexural Modulus (3.00 mm)	4450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	25	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	280	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	130	°C	
1.8 MPa, Unannealed, 3.00 mm	81.0	°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

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