

Retpol® PDR 1629 HS

Polypropylene Homopolymer

PolyPacific Pty. Ltd.

Message:

CORTON PDR 1629 HS is a 35 % wollastonite filled homopolymer polypropylene compound. It is a medium to high flow injection moulding grade developed for rigid components. It has been stabilized to meet heat aging requirements of 21 days at 150°C.

General Information			
Filler / Reinforcement	Wollastonite (CaSiO ₃),35% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Homopolymer		
	Medium Flow		
Uses	Automotive Applications		
	Housings		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	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)	0.50 to 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	98		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	80		
Shore D, 15 sec, 3.00 mm	71		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	32.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	16	%	ASTM D638
Flexural Modulus (3.00 mm)	4900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	29	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	82.0	°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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