

Corton® PDR 1620

Polypropylene

PolyPacific Pty. Ltd.

Message:

Corton PDR 1620 is a 70% barium sulphate filled polypropylene compound. It is a medium to high flow injection moulding grade developed for its high density.

General Information			
Filler / Reinforcement	Barium Sulfate,70% Filler by Weight		
Features	High Density		
	Medium Flow		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.70 to 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	84		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	79		
Shore D, 15 sec, 3.00 mm	68		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	13.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	25	%	ASTM D638
Flexural Modulus (3.00 mm)	3100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	23	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	108	°C	
1.8 MPa, Unannealed, 3.00 mm	60.0	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	5.0E-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 280	°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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