Corton® PDR 1623 HS

Polypropylene Homopolymer

PolyPacific Pty. Ltd.

Message:

Corton PDR 1623 HS is a 20% mica filled homopolymer polypropylene compound. It is a high flow injection moulding grade developed for rigid components requiring maximum rigidity good weld line strength and dimensional stability. It is stabilized to meet automotive heat ageing requirements (21 days at 150°C).

General Information			
Filler / Reinforcement	Mica,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Dimensional Stability Heat Stabilized High Flow Homopolymer		
Uses	Automotive Applications		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.90 to 1.3	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 3.00 mm)	113		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	80		
Shore D, 15 sec, 3.00 mm	74		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.00 mm)	42.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.00 mm)	5.0	%	ASTM D638
Flexural Modulus (3.00 mm)	3600	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.00 mm)	19	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	190	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	146	°C	
1.8 MPa, Unannealed, 3.00 mm	90.0	°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 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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