Retpol® C3 300 TF HS

Polypropylene Copolymer

PolyPacific Pty. Ltd.

Message:

Corton C3 300 TF HS is a 30% talc filled copolymer polypropylene compound. It is a low to medium flow injection moulding grade developed for rigid components requiring good impact strength and stabilized to meet automotive heat ageing requirements.

General Information			
Filler / Reinforcement	Talc,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Copolymer Good Impact Resistance Heat Stabilized Low Flow		
Uses	Automotive Applications Automotive Instrument Panel Furniture Housings		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.90 to 1.2	%	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	73		
Shore D, 15 sec, 3.00 mm	66		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.00 mm)	25.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.00 mm)	80	%	ASTM D638
Flexural Modulus (3.00 mm)	2450	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.00 mm)	45	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	500	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 3.00 mm	122	°C	
1.8 MPa, Unannealed, 3.00 mm	69.0	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	7.0E-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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