Retpol® 3011 HS

Polypropylene

PolyPacific Pty. Ltd.

Message:

Extron 3011 HS is a 45% glass fibre reinforced coupled polypropylene compound. It is a medium to high flow injection moulding grade developed for components requiring excellent creep resistance with high heat deflection temperatures, very high rigidity and good impact strength. It has been stabilized to meet automotive heat aging requirements of 21days at 150°C.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled Good Creep Resistance Good Impact Resistance Heat Stabilized High Rigidity Medium Flow		
Uses	Automotive Applications		
Forms	Granules		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.27	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.10 to 0.40	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 3.00 mm)	111		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	84		
Shore D, 15 sec, 3.00 mm	78		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (3.00 mm)	120	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.00 mm)	2.0	%	ASTM D638
Flexural Modulus (3.00 mm)	9300	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.00 mm)	100	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	620	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	160	°C	

1.8 MPa, Unannealed, 3.00 mm	152	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	3.0E-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	

NOTE		
1.	50 mm/min	
2.	50 mm/min	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China