

Retpol® 3053 HS UV3

Polypropylene

PolyPacific Pty. Ltd.

Message:

Extron 3053 HS UV3 is a 23% glass fibre reinforced coupled polypropylene compound. It is a high flow injection moulding grade developed for components requiring excellent creep resistance with high rigidity, high heat deflection temperatures and good impact strength. It is stabilized for continuous outdoor exposure and to meet automotive heat ageing requirements of 500hrs at 150°C.

General Information			
Filler / Reinforcement	Glass Fiber,23% Filler by Weight		
Additive	Heat Stabilizer UV Stabilizer		
Features	Chemically Coupled Good Creep Resistance Good Impact Resistance Heat Stabilized High Flow High Rigidity		
Uses	Automotive Applications		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.20 to 0.80	%	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	81		
Shore D, 15 sec, 3.00 mm	76		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	88.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	2.0	%	ASTM D638
Flexural Modulus (3.00 mm)	4500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	90	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	600	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	150	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	4.0E-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		

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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

