

# Retpol® 9020 HS

Polypropylene Homopolymer

PolyPacific Pty. Ltd.

## Message:

Retpol 9020 HS is a medium to high flow flame retardant homopolymer polypropylene compound. It has been developed to meet the requirements of UL 94 V-2 flammability rating and AS/NZS 60695.2.12 960°C glow- wire flammability index, whilst still maintaining the property balance between impact strength and rigidity of polypropylene.

General Information			
Additive	Flame Retardant Heat Stabilizer		
Features	Flame Retardant Good Impact Resistance Good Stiffness Heat Stabilized Homopolymer Medium Flow		
Uses	Appliances Electrical/Electronic Applications Housings		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 1.9	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	35.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	110	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	25	J/m	ASTM D256
Unnotched Izod Impact	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-2		
3.00 mm	V-2		
Glow Wire Flammability Index (3.00 mm)	960	°C	AS/NZS 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Regrind	5	%	
Processing (Melt) Temp	180 to 225	°C	
Mold Temperature	20.0 to 60.0	°C	
Injection Rate	Moderate		
NOTE			
1.	50 mm/min		
2.	50 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

