Hanwha Total PP FH51

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FH51 is flame-resistant polypropylene compound designed for outdoor uses requiring heat-resistance and weatherability. For outdoor use, UL specifications of fire-resistance and weatherability are required.

General Information				
UL YellowCard	E140331-222923			
Additive	heat stabilizer			
Features	Workability, good			
	High liquidity			
	Good weather resistance			
	Heat resistance, high			
	Thermal Stability			
	Flame retardancy			
Uses	Electrical/Electronic Applications			
	Electrical components			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.930	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	12	g/10 min	ASTM D1238	
Molding Shrinkage - Flow (2.00 mm)	1.4 - 1.7	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	95		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ¹ (Yield)	63.7	MPa	ASTM D638	
Tensile Elongation ² (Break)	30	%	ASTM D638	
Flexural Modulus ³	1670	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C)	39	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0.45 MPa, Unannealed)	120	°C	ASTM D648	
Flammability	Nominal Value		Test Method	
Flame Rating	V-2		UL 94	
Injection	Nominal Value	Unit		

Rear Temperature	170 - 180	°C
Middle Temperature	180 - 200	°C
Front Temperature	180 - 200	°C
Nozzle Temperature	190 - 210	°C
Mold Temperature	40.0 - 70.0	°C
Injection Pressure	39.2 - 78.5	MPa
Back Pressure	0.490 - 1.96	MPa
Injection instructions		
Injection Speed: 50 to 80 %		
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	5.0 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

