

Hanwha Total PP FB82

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FB82 is a flame retardant polypropylene containing a base resin of superior impact resistance and features high impact strength. A feature of this product is superior flowability that provides excellent processability, high flame retardancy and a neat finish. FB82 is widely used in the exterior parts of electric and electronic products requiring high flame retardancy.

General Information			
UL YellowCard	E140331-547760		
Features	Good dimensional stability		
	Rigidity, high		
	High strength		
	Impact resistance, high		
	Workability, good		
	High liquidity		
	Scratch resistance		
	Heat resistance, high		
	Thermal stability, good		
	Excellent appearance		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	45	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.1 - 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	29.4	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	1570	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.794 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 195	°C	
Front Temperature	180 - 195	°C	
Nozzle Temperature	180 - 195	°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

