

Hanwha Total PP FH22

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FH22 is a highly rigid, high-gloss, and flame retardant polypropylene compound, using a variety of base PPs, such as HIPP (High Isotactic Polypropylene), which are manufactured with SAMSUGN TOTAL's special processing technology to offer top-of-the-line quality.

This product features superior rigidity, heat and scratch resistance and low blooming. In addition to high flowability, FH22 features outstanding processability, flame-retardancy and add to the appearance of the finished product. FH22 is widely used in the exterior parts of electric and electronic products requiring high flame retardant property.

General Information			
UL YellowCard	E140331-222917		
Features	Low blur phenomenon		
	Rigidity, high		
	Highlight		
	m-benzene dimethyl		
	Workability, good		
	High liquidity		
	Scratch resistance		
	Heat resistance, high		
	Thermal stability, good		
	Good appearance		
Flame retardancy			
Uses	Electrical/Electronic Applications		
	Electrical components		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.4 - 1.8	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	37.3	MPa	ASTM D638
Tensile Elongation ² (Break)	20	%	ASTM D638
Flexural Modulus ³	1860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	44	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 (0.794 mm)	V-0		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		

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