

Hanwha Total PP FH21

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FH21 is a polypropylene that features superior flame retardancy, rigidity and impact - resistance. This product is widely used for TV D/Y, and for the exterior parts of electronic products due to superior thermo-plasticity.

General Information			
UL YellowCard	E140331-222916		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Impact resistance, high		
	Heat resistance, high		
	Thermal Stability		
	Thermal stability, good		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.90 - 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	31.4	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	3190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	138	°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 - 200	°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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