

Hanwha Total PP FH42P

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FH42P 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	E140331-222919	E140331-222918	
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	0.980	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	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)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	33.3	MPa	ASTM D638
Tensile Elongation ² (Break)	120	%	ASTM D638
Flexural Modulus ³	1770	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)	118	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating	V-0	UL 94	
Additional Information			

UL746C: Complies

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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