

Hanwha Total PP FB76S

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FB76S is a High Specific Weight polypropylene that contains inorganic fillers in large quantities, so vibration-resistant stability is very good. Superb mechanical properties and size stability make this grade perfect for use in acoustic instruments such as a speaker housings.

General Information			
UL YellowCard	E140331-222915		
Features	Flame Retardant		
	High Rigidity		
	Vibration Damping		
Uses	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	19.6	MPa	ASTM D638
Tensile Elongation ² (Break)	20	%	ASTM D638
Flexural Modulus ³	2550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	29	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	
Front Temperature	200 to 220	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	39.2 to 88.3	MPa	
Holding Pressure	58.8 to 98.1	MPa	
Screw Speed	30 to 80	rpm	
NOTE			

1.	50 mm/min
2.	50 mm/min
3.	5.0 mm/min

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