Hanwha Total PP FB33

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FB33 uses base resins with superior impact resistance, resulting in exceptionally high impact strength. In particular, FB33 features superior flowability offering excellent processability, high flame retardancy. This compound PP is widely used in electric and electronic component housings.

General Information			
UL YellowCard	E140331-222905		
Features	Good dimensional stability Rigidity, high High strength Impact resistance, high Workability, good High liquidity 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	0.980	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	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)	80		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	26.5	MPa	ASTM D638
Tensile Elongation [2] (Break)	170	%	ASTM D638
Flexural Modulus [3]	1180	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	78	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648
Flammability	**Nominal Value**		**Test Method**

Flame Rating (1.59 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		

Recommended distributors for this material

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