

Taita PS 818

General Purpose Polystyrene

Taita Chemical Company, Ltd.

Message:

Taita PS 818 is a general-purpose polystyrene material. This product is available in North America or Asia Pacific region. The processing method is extrusion.

The main features of Taita PS 818 are:

flame retardant/rated flame

high molecular weight

high strength

Heat resistance

The typical application field of Taita PS 818 is: thin plate

General Information			
UL YellowCard	E50263-538148		
Features	High molecular weight		
	High strength		
	Thermal stability, good		
Uses	Sheet		
UL File Number	E50263		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, 3.18 mm)	53.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus ² (23°C)	3820	MPa	ASTM D790
Flexural Strength ³ (Yield, 23°C)	83.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	15	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	95.0	°C	ASTM D648
Vicat Softening Temperature	108	°C	ASTM D1525 ⁴
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.60		ASTM D150

Dissipation Factor (1 MHz)	5.0E-4	ASTM D150
Flammability	Nominal Value	Test Method
Flame Rating (1.59 mm)	HB	UL 94
Additional Information		
Residual Monomer: <150 ppm		
Injection	Nominal Value	Unit
Rear Temperature	160 - 300	°C
Middle Temperature	160 - 300	°C
Front Temperature	160 - 300	°C
Mold Temperature	35.0 - 65.0	°C
Injection Pressure	49.0 - 137	MPa
NOTE		
1.	5.0 mm/min	
2.	2.8 mm/min	
3.	2.8 mm/min	
4.	标准 B (120°C/h), 压力1 (10N)	

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