

Taitarex® 818

General Purpose Polystyrene

Taita Chemical Company, Ltd.

Message:

Taitarex® 818 is a General Purpose Polystyrene material. It is available in Asia Pacific or North America for extrusion.

Important attributes of Taitarex® 818 are:

Flame Rated

Clarity

Good Dimensional Stability

Good Processability

Heat Resistant

Typical application of Taitarex® 818: Sheet

General Information			
Features	General Purpose		
	Good Dimensional Stability		
	Good Processability		
	High Molecular Weight		
	High Strength		
	Low Residuals		
	Medium Clarity		
	Medium Heat Resistance		
Uses	General Purpose		
	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D542
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.9	g/10 min	ASTM D1238
Residual SM Monomer	300	ppm	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, 3.18 mm)	53.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C, 3.18 mm)	2.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹ (23°C)	15	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ²	107	°C	ASTM D1525 ³
Flammability	Nominal Value	Test Method	
Flame Rating (1.59 mm)	HB	UL 94	
Optical	Nominal Value	Unit	
Haze (2800 μm)	0.50	%	

NOTE	
1.	1/4"x1/2"x5/2"
2.	3 mm thick
3.	Rate B (120°C/h), Loading 1 (10 N)

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