

Taitarex® 818K

General Purpose Polystyrene

Taita Chemical Company, Ltd.

Message:

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

Important attributes of Taitarex® 818K are:

Flame Rated

Clarity

Good Processability

Heat Resistant

High Molecular Weight

Typical application of Taitarex® 818K : Sheet

General Information			
UL YellowCard	E50263-538148		
Features	Good Processability		
	High Molecular Weight		
	High Strength		
	Medium Clarity		
	Medium Heat Resistance		
Uses	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)	2.3	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, 0.125 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	Test Method
Haze (2800 μm)	0.50	%	ASTM D1003
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

