



(Optical Grade Polystyrene) GPPS 808

Characteristics		Applications		
● Optical Grade ● The Most State of The Art form US NOVA CHEMICAL ● Low Residual Monomer ● Good Heat Resistance ● Mold Dimension Stability ● Good Transparency ● Easy Processing ● Good water resistance		Diffuser of back light module		
Physical Properties				
Properties	ASTM method	Test Condition	Unit	Typical Value
Specific Gravity	D542	---	---	1.046
Melt Flow Index	D1238	200℃ ， 5 kg load	g/10min	1.9
Tensile Strength at Yield	D638	23℃ ， 1/8” Sample	kg/cm2	560
Elongation at Break	D638	23℃ ， 1/8” Sample	%	2.0
Izod Impact Strength	D256	23℃ ,A method,notched 1/4”×1/2”×5/2”	kg-cm/cm	1.6
Vicat Softening Temperature	D1525	1 kg load ， 3 mm Thick (120 ℃/hr)	℃	108
Heat Distortion Temperature	D648	Unannealed, 1/2 in, 18.56 kg/cm2 load pressure	℃	95
Flammability	UL-94	1/16” Sample	File No. E50263	94HB
Residual SM monomer	Internal	GC	ppm	< 300
Haze	---	2.8mm thick	%	0.35
Light Transmission	D1003	2.8mm thick	%	92

