

## DENKA STYROL

### GPPS resins (General Purpose Polystyrene)

#### General Properties

Properties	Methods	Conditions	Units	MW-1-301	MW-1-321	MF-21-301	HRM-2S-311
				High Strength	High Strength	High Flow High Heat	High Heat
Color	—	—	—	Bluish	Crystal	Bluish	Non-Blue
MFR	ISO 1133 (JIS K7210)	200°C , 49N	g/10min.	1.8	1.8	4.5	1.8
Vicat Softening Temperature	ISO 306 (JIS K7206)	50N	°C	93	93	99	102
Deflection Temp under load	ISO 75-1,2 (JIS K7191-1,2)	Flat wise 1.82MPa	°C	74	74	78	81
Total luminous transmittance	ISO 13468-1 (JIS K7361)	2mmt	%	90	90	90	90
Haze	ISO 14782 (JIS K7136)	2mmt	%	0.3	0.3	0.3	0.3
Tensile Strength	ISO 527-1,2 (JIS K7161)	5mm/min	MPa	47	47	47	50
Elongation at Break			%	<3	<3	<3	<3
Charpy impact strength	ISO 179 (JIS K7111)	Notched, 23°C	KJ/m <sup>2</sup>	2.8	2.8	2.2	2.6
Flexural Strength	ISO 178 (JIS K7171)	2mm/min	MPa	102	102	107	109
Flexural Modulus			MPa	3,300	3,300	3,350	3,400
Rockwell Hardness	ISO 2039-2 (JIS K7202)	23°C	M scale	75	75	75	75
Density	ISO 1183 (JIS K7112)	23°C	Kg/m <sup>3</sup>	1,040	1,040	1,040	1,040
Flammability	UL94(UL File No.E49895)			HB	HB	HB	HB
FDA 21CFR177.1640 Regulation				—	○	—	○
Japan Hygienic olefin and styrene plastics association regulation				○	○	○	○

\* Values are typical and not guaranteed.

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