

DENKA STYROL (GPPS)

ISO				GPPS Series		
	Test Method	Test Condition	Unit	MF-21-301	MW-1-301	MW-1H-321
				High Flow High Heat	High Strength	High Heat, High Strength
Melt Flow Rate	ISO 1133	200°C,49N	g/10min	4.5	1.8	1.4
Tensile Strength	ISO 527-1,-2	5mm/min	MPa	47	47	50
Elongation at Break			%	<3	<3	<3
Flexural Modulus	ISO 178	2mm/min	MPa	3350	3300	3350
Flexural Strength			MPa	103	100	103
Charpy Impact Strength	ISO 179	23°C,Notched	kJ/m ²	2.1	3.0	3.2
Heat Deflection Temperature	ISO 75-1,-2	1.8MPa Flatwise method	°C	78	74	84
Vicat Softing Temperature	ISO 306	50N	°C	99	93	100
Rockwell Hardness	ISO 2039-2	23°C	M	75	75	75
Density	ISO 1183	23°C	kg/m ³	1050	1050	1050

ASTM				GPPS Series		
	Test Method	Test Condition	Unit	MF-21-301	MW-1-301	MW-1H-321
				High Flow High Heat	High Strength	High Heat, High Rigidity
Melt Flow Rate	ASTM D-1238	200°C,49N	g/10min	4.8	1.9	1.5
Tensile Strength	ASTM D-638	5mm/min	MPa	47	47	50
Elongation at Break			%	<3	<3	<3
Flexural Modulus	ASTM D-790	2mm/min	MPa	3400	3350	3400
Flexural Strength			MPa	88	85	89
Izod Impact Strength	ASTM D-256	23°C,Notched	J/m	16	18	18
Heat Deflection Temperature	ASTM D-648	1.8MPa Edgewise method	°C	87	81	91
Vicat Softing Temperature	ASTM D-1525	50N	°C	99	93	100
Rockwell Hardness	ASTM D-785	23°C	M	75	75	75
Density	ASTM D-792	23°C	-	1.05	1.05	1.05

Caution

- When using Denka products for specialized applications such as those for the medical device, consult Denka in advance.
Do not use for the medical device like permanent implantation or temporary use in a human body.

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