

Denka Styrol

General Properties

Properties	Methods	Conditions	Units	MW-1-301	MW-1-321	MF-21-301	MF-21-321	MD-100-301	HRM-2S-311
				High Strength		High Flow High Heat		High Flow	High Heat
Color	-	-	-	Bluish	Crystal	Bluish	Crystal	Bluish	Non-Blue
Total Transmittance	ISO 13468	2mmt	%	90	90	90	90	90	90
Haze	ISO 14782	2mmt	%	0.3	0.3	0.3	0.3	0.3	0.3
MFR	ISO 1133	200°C, 49 N	g/10min	1.8	1.8	4.5	4.5	8.5	1.8
Tensile Stress at Break	ISO 527	5mm/min	MPa	47	47	47	47	45	50
Nominal Strain at Break			MPa	<3	<3	<3	<3	<3	<3
Flexural Stress	ISO 178	2mm/min	MPa	102	102	107	107	99	109
Flexural Modulus			MPa	3,300	3,300	3,350	3,350	3,300	3,400
Charpy Impact Strength	ISO 179	Notched, 23°C	kJ/m2	2.8	2.8	2.2	2.2	2.0	2.6
Vicat Softening Temperature	ISO 306	50N	°C	93	93	99	99	88	102
Deflection Temperature Under Load	ISO 75	1.8MPa	°C	74	74	78	78	70	81
Density	ISO 1183	23°C	kg/m2	1,040	1,040	1,040	1,040	1,040	1,040
Rockwell Hardness	ISO 2039	23°C	M scale	75	75	75	75	75	75
Flammability	UL94 (UL File No. E49895)			HB	HB	HB	HB	HB	HB
FDA 21CFR 177.1640 Regulation				√	√	√	√	√	√
EU Directive 10/2011 Regulation				√	√	√	√	√	√