

Overview XIRAN[®] SG grades

For engineering plastics applications

Typical data	SI units	XIRAN [®] SM200	XIRAN [®] SG230EB-B	XIRAN [®] SGH30EB	XIRAN [®] SG260EB	XIRAN [®] SGH60EB
Glass content	%	0	15	15	30	30
Impact properties						
Charpy notched impact strength (23°C)	kJ/m ²	14	9	9	9	9
Charpy notched impact strength (-40°C)	kJ/m ²	7	8	8	8	8
Charpy unnotched impact strength (23°C)	kJ/m ²	55	28	28	30	30
Charpy unnotched impact strength (-40°C)	kJ/m ²	45	32	32	34	34
Tensile properties						
Tensile stress at break	N/mm ²	30	75	75	90	90
Elongation at break	%	8	2.5	2.5	2.0	2.0
E-modulus	N/mm ²	2200	5300	5300	8500	8500
Flexural properties						
Flexural strength	N/mm ²	62	120	120	150	150
Flexural modulus	N/mm ²	2200	5400	5400	8500	8500
Thermal properties						
Heat deflection temperature at 1.80 MPa	°C	100	120	120	120	120
Vicat softening temperature	°C	115	122	122	118	118
Flammability properties		HB	HB	HB	HB	HB
Specific properties						
Density	g/cm ³	1.07	1.17	1.17	1.27	1.27
MFI at 240°C and 100N	dg/min	22	10	18	2.5	4
Spiral flow length	cm	32	35	35	26	24



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