

# Grade slate

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## Typical values

Grade	MFR 230°C/ 2.16 kg ExxonMobil method g/10 min	Density <sup>1</sup> 23°C ASTM D1505, g/cm <sup>3</sup>	Hardness 15 sec ASTM D2240, shore D/A	Tensile stress <sup>1</sup> @break ASTM D638, MPa (psi)	Elongation <sup>1</sup> @break ASTM D638, %	Flex mod <sup>1,2</sup> 1% secant ASTM D790 MPa (psi)	Tear strength <sup>1</sup> Die C ASTM D624, kN/m (lbf/in)	Vicat softening point 200g ExxonMobil method, °C (°F)
3000	8	0.873	27D	>13.8 (>2000)	>800	62.4 (9050)	63.9 (365)	65.1 (149)
3020FL**	3	0.874	29D	>14.5 (>2100)	>800	65.3 (9470)	65.1 (372)	67.0 (153)
3980FL**	8	0.879	34D	>19.3 (2800)	>800	117 (17000)	83.4 (476)	77.3 (171)
3588FL**	8	0.889	50D	26.0 (3770)	637	402 (58400)	127 (724)	103 (217)
6102/6102FL**	3	0.862	67A	>7.58 (>1100)	>800	14.4 (2090)	33.3 (190)	53.9 (129)
6202/6202FL**	20	0.862	64A	>5.52 (>800)	>800	12.8 (1860)	32.0 (183)	45.2 (113)
6502	45	0.865	71A	>7.58 (>1100)	>800	20.4 (2960)	40.6 (232)	51.4 (125)

\*\* FL grades pass ExxonMobil Chemical's test for film appearance with regard to gels, as needed for performance film applications ('A' rating)

<sup>1</sup> All physical properties were measured on specimens cut from compression molded plaques per ASTM D4703, Procedure A, Type I and conditioned at 23°C for a minimum of 40 hours per ASTM D618 prior to testing.

<sup>2</sup> 1% secant @ break.

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