



REACTION INJECTION MOULDING MATERIAL SPECIFICATION SHEET

HI GRADE REF NO.	TYPICAL APPLICATIONS	COLOUR OPTIONS	DENSITY	SHORE HARDNESS	FLEXURAL MODULAS MPa	IMPACT STRENGTH	HEAT DEFLECTION TEMP	TG	TENSILE STRENGTH MPa	COMPRESSIVE STRENGTH MPa	ELONGATION AT BREAK
Standard					ISO 178	ISO 179	ISO 75	DSC	ISO 527	ISO 604	ISO 527
5211	Hoses, bumper rubbing strips, grommets, bellows.	Black	Ca. 1.1g/cm ³	65-70A			90°C	-40°C	4.0-5.0		300-400%
5212	Wheel arch liners, undertrays, scuff plates, general covers and less structural components.	Full range of colours available. The best material in the range for colour matching.	Ca. 1.2g/cm ³	55-65D	550-650	>70kj/m ²	45 C	82°C	15-20	18-30	35-40%
5213	Automotive and aircraft interior panels, hospital equipment. Flame Retardant UL94 VO	Limited colour stability due to flame retardant additives.	Ca. 1.2g/cm ³	78-83D	Ca. 1200-1400	>25kj/m ²	Ca. 90°C	Ca. 99°C	Ca. 30-35	Ca. 40-55	Ca. 10-15%
5214	Electrical components, Automotive under bonnet components.	Good for general mid range colours.	Ca. 1.2g/cm ³	75-80D	Ca. 1550-1650	>25kj/m ²	Ca. 120°C	Ca. 130°C	Ca. 30-40	Ca. 75-90	Ca. 3-4%
5215	Electrical components, Automotive under bonnet components.	Black	Ca. 1.2g/cm ³	75-80D	Ca. 1000-1200	>40kj/m ²	Ca. 130-140°C	Ca. 136°C	Ca. 30-40	Ca. 70-80	Ca. 5-10%
5216	Telephones, computer casework, toys, electronic enclosures etc.	Good for general mid range colours.	Ca. 1.2g/cm ³	75-80D	Ca. 1000-1300	>40kj/m ²	Ca. 80°C	Ca. 90°C	Ca. 30-35	Ca. 30-40	Ca. 35-40%
5217	Telephones, computer casework, toys, electronic enclosures etc.	Black	Ca. 1.2g/cm ³	75-80D	Ca. 1100-1400	>70kj/m ²	Ca. 85-90°C	Ca. 98°C	Ca. 35-40	Ca. 35-50	Ca. 8-18%
5218	Telephones, computer casework, toys, electronic enclosures etc. Tougher than 5216 and 5217.	Black	Ca. 1.2g/cm ³	75-85D	Ca. 1300-2000	>30kj/m ²	Ca.90-100°C	Ca. 92°C	Ca. 40-45	Ca. 40-60	Ca. 16-30%
5219	Thicker section parts to simulate dough mouldings.	Full range of colours available.	Ca. 1.2g/cm ³	78-83D	Ca. 2700-2900	>40kj/m ²	Ca. 70-75°C	Ca. 77°C	Ca. 60-70	Ca. 70-80	Ca. 10-14%
5220	Electrical components, Automotive under bonnet components.	Black	Ca. 1.14g/cm ³	70-80D	Ca. 1700-1900	>30kj/m ²	Up to 182°C	Ca. 194°C	Ca. 45-50	Ca. 195-200	Ca. 5-10%