



Technical Services

Material Comparison reports

To take 2, or more, thermoplastic materials, mould them under identical conditions on the same test equipment and issue a report.

Colour Matching

To produce a commercial colour match using a Minolta Spectrophotometer with the supply of colour plaques.

Luxus are able to offer all the services detailed below. Please contact us with your requirements and we will put together a bespoke package for you.

Test Description	Units
Lab Extruder / Staff	Full Day
	Half Day
Production Extruder & Operators	Full Day
Identification of Materials	
Fourier Transform Infrared Spectroscopy (FTIR)	
Differential Scanning Calorimetry (DSC)	
Xray Fluorescence (XRF)	
Ash Content	%
Moisture Content	%
Oxidative Induction Times (OIT)	
Heat Build Up (HBU)	
Total Solar Reflectance (TSR)	
'End of Life' Recyclability	

Continued...



Test Description	Units	Test Method
Flow Properties		
MFI	g/10mins	ISO 1133
MVR	cm ³ /10min	ISO 1133
Impact Properties		
IZOD	kJ/m ²	ISO 180:1993
Charpy	kJ/m ²	ISO 179
Tensile		
Tensile Properties	N	ISO/R 527
Flexural Modulus	N/mm ²	ISO 178
Young's Modulus	N/mm ²	ISO/R 527
Hardness		
Shore A & D		ISO 868
Density		
Density	g/cm ³	ISO 1183:2012
Thermal Analysis		
Heat Distortion Temperature - Edge 0.45Mpa	°C	ISO 75
Heat Distortion Temperature - Edge 1.8Mpa	°C	ISO 75
Vicat - 1kg	°C	ISO 306
Vicat - 5kg	°C	ISO 306
Scratch Resistance Testing		
Erichsen Cross Hatch		