

Laboratory tests

Checked property	Test method
ATR-FTIR plastic identification	Infrared spectroscopy provides spectra that enable accurate identification of plastics and chemical compounds
Measurement of mass flow rate (MFR) and volume flow rate (MVR)	Standard: PN-EN ISO 1133
Measurement of mechanical properties by static tensile testing	Standard: PN-EN ISO 527-1; PN-EN ISO 527-2; PN ISO 37
Measurement of tear strength	Standard: PN-EN ISO 34-1
Charpy impact test	Standard: PN-EN ISO 179
Shore hardness test	Standard: PN-EN ISO 868
Identification of plastics using Differential Scanning Calorimetry (DSC)	Standard: PN-EN ISO 11357-1
Measurement of the density of plastics	Standard: PN-EN ISO 1183-1
Determination of water content	
Measurement of filler content in plastics	Assessment of filler percentage in plastics Standard: PN-EN ISO 3451-1
Thermal analysis (TGA)	Thermogravimetric analysis (TGA) Standard: PN-EN ISO 11358-1
Flammability test	Standard: UL 94