

Axion Polymers Laboratory Services

Price list

The following price list is intended as a guideline only. Prices will vary according to individual customer requirements. Please call or email our technical staff to discuss your requirements and to obtain a precise quotation. Discounts may apply for multiple tests.

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Test	Description	Cost
FTIR Tests	Used to identify polymer types (most commonly used polymers only- PS, ABS, PC, PE, PP, PE/PP Blends, PVC, PA, POM, PMMA, PU, EVA, SAN). Can give an indication of the approximate composition of a sample- the more samples analysed, the more accurate the results will be	£225 - £1125
Sieve Analysis	For determining particle size distribution for particles ranging greater than 40mm to less than 2mm	£150
XRF Testing	For determination of levels of heavy elements in sample- from ppm levels upwards (Ti, Br, Cl)	£375
Tensile Strength Testing	Measures tensile strength, elongation at yield and elongation at break - ISO 527-1 method	£375
Impact Strength Testing	Determines impact strength of material based on Izod notched impact method	£375
Melt Flow Index	Used to test melt flow index of material- using ISO 1133 method	£375
Density Cut	Determines density distribution of material ranging from 1.00SG to 1.20SG. This can be a useful tool when determining plastic types in a mixture	£225 - £450
Sample Compounding	To determine how well a material can be made into extruded product, if at all, Also can be made into test plaques.	£450
Ash Test	Can be used to determine the level of fillers in a sample as well as metals.	£225
Hand Sort	Used to characterise a sample by material type where analytical techniques are not suitable	£300

Please see our example quotations overleaf

Example customer quotations:

Quote 1:

A client is considering taking a new supply of granulated polypropylene feed stock sourced from China. However, they are worried that the material may not perform as well as the manufacturers claim. They are also concerned there may be high levels of brominated flame retardants or heavy metals within the feedstock. The client requires a full mechanical properties specification for this feed stock as well as analysis of the heavy metals and halogen compounds found within it. The recommendation would be to perform Impact Strength, Tensile Strength and Melt Flow Index tests as well as XRF testing. Doing this would also test the materials' suitability for compounding. Because Tensile, Impact, MFI and XRF testing requires similar sample preparation then the sample preparation time is reduced. Rather than taking 2 hours preparation for each test x 4 test = 8 hours, the same preparation time is reduced to two hours in total, reducing testing costs from £1500 to £675 (total time from 10.5 hours to 6.5 hours).

Quote 2:

A client is considering further processing of what is currently classed as a waste stream in order to recover more value from this stream. They wish to know the content of polymer as well as the metal and printed circuit board content. They also wish the polymer fraction to be broken down into its constituent fractions. After a brief consultation, Axion will establish the likely sample size required for this analysis based on the approximate particle size and an approximate breakdown of the classifications required for analysis. In this case the recommendation would be to hand sort a 10kg sample estimated to take 4 hours, followed by a 500 or 1000 sample FTIR of the polymer fraction. This would equate to a total cost of either £1150 (500 FTIR) or £1725 (1000 FTIR). Which FTIR sample size to use depends on the the level of accuracy required which Axion can also consult with clients on.

Interested?

Contact Axion Polymers

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Axion - Innovation in recycling