

Supplementary material for article

Optimization course of titanium nitride nanofiller loading in high-density polyethylene: interpretation of reinforcement effects and performance in material extrusion 3D printing

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Raman results of HDPE/ TiN composites

Table S1. Significant Raman peaks along with their related assignments from HDPE pure.

Wavenumber (cm ⁻¹)	Intensity	Raman peak assignment
1064	Medium	C-O-C stretching [1]
1131	Medium	C-O-C stretching [2]
1297	Medium	C-O-C stretching [1]
1418	Small	CH ₃ deformation [1]
1441	Small	CH ₂ deformation [1,3]
2850	Major	CH ₂ symmetric stretching [4]
2884	Major	C-H antisymmetric stretching [5]

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