



## KCL Formi® 3D rPETG

**Material** KCL Formi® 3D rPETG is high impact resistance grade based on post-industrial and post-consumer PETG thermoformed products (e.g. indoor/outdoor signage, vending machine panels, medical and industrial equipment covers, thermoformed packaging and display systems).

**Manufacturing** PETG is collected, cleaned, shredded, and re-extruded and pelletized into rPETG granules.

**Properties** High impact resistance, good chemical resistance, no pre-drying needed.

**Environment** Made from 100% recycled PETG, reducing virgin plastic use. KCL Formi®3D rPETG is fully recyclable and suitable for energy recovery.

Physical and mechanical properties	Property	Test method	Transparent	Opaque
	Density, g/cm <sup>3</sup>	ISO 1183	1,27	1,27
	Tensile strength, 50mm/min, N/mm <sup>2</sup>	ISO 527-2	45	45
	Tensile modulus, 1mm/min, N/mm <sup>2</sup>	ISO 527-2	2200	2200
	Elongation at break, 50mm/min, %	ISO 527-2	4	4
	Izod notched impact strength, unnotched +23 °C, kJ/m <sup>2</sup>	ISO 180/1A	11,5	11,5
	Charpy impact strength, unnotched +23 °C, kJ/m <sup>2</sup>	ISO 179-2/1eU	NB	NB
	Linear coefficient of thermal expansion (23-70 °C), K <sup>-1</sup>	ISO 11359-2	51x10 <sup>-6</sup>	51x10 <sup>-6</sup>

**Pretreatment** KCL Formi® rPETG is not sensitive to moisture, no pre-drying needed.

**Extrusion** Recommended processing parameters for extrusion are:

Temperature profile from the nozzle 215/190/185/185 °C

**Storage** KCL Formi granulates should be protected from UV-light and stored in closed packages in dry conditions at temperature below 50 °C.

All information provided is based on our knowledge and experience. It is intended solely as a guide for the safe handling, use, processing, transport, storage, disposal, and release of the material, and should not be considered a guarantee or quality certification. You must adhere to all applicable rules, regulations, and guidelines when using the material. You are fully responsible for any claims or liabilities arising from your handling, use, processing, transport, storage, disposal, and release of the material