

FLEX BLK 10

Production Flexible

Flexible material for the production of exceptionally durable parts

Simulating black moulded polypropylene, the Flex Blk 10 is a robust material with high elongation at break.



Applications

- Outstanding flexibility and accuracy
- Versatile – suitable for a wide range of applications
- High notched Izod impact strength – did not break in testing

Applications

- Functional assemblies and prototypes
 - Automotive styling parts
 - Consumer goods and electronic components
 - Snap fit assemblies
 - Containers and enclosures
- Master patterns for RTV/silicone moulding
- Replacement of short-run cast urethane production parts
- Concept and marketing models



Physical Properties

Colour	Black
Type	Polypropylene
Liquid Material	
Solid Density (@ 25°C)	1.15g/cm ³
Layer Thickness (mm)	0.10

Mechanical Properties

		TEST/ISO
Tensile Strength, Ultimate (MPa)	46	ASTM D638
Tensile Strength, at Yield (MPa)	37	
Tensile Modulus (MPa)	1400	
Elongation at Break (%)	104	
Elongation at Yield (%)	6	
Flexural Strength (MPa)	37	ASTM D790
Flexural Modulus (MPa)	990	
Notched Izod Impact Strength (J/m)	55	ASTM D256
Unnotched Izod Impact Strength (J/m)	Did not break	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.45 MPa	52	
@ 1.82 MPa	43	
Co-efficient of Thermal Expansion (ppm/°C)		ASTM E831
<T _g	91	
>T _g	138	
Glass Transition (T _g)	18	ASTM E1640
Shore Hardness	76D	ASTM D2240
Water Absorption (%)	1.40	ASTM D570

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