



DuraForm® Flex

Thermoplastic elastomer material with rubber-like flexibility and functionality.

General Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Density	ASTM 4164	0.44 g/cm ³	0.44 g/cm ³
Melting Point	DSC	192 °C	378 °C

Mechanical Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength, Ultimate	D638	1.8 MPa	262 psi
Elongation at Break	D638	110 %	110 %
Tensile Modulus	D638	7.4 MPa	1080 psi
Flexural Modulus (@ 23 °C)	D790	4.9 MPa	
Hardness, Shore D	D2240	45 - 75	45 - 75
Initial Tear Resistance (Die C @ 23 °C)	D624	15.1 J/m	86 lb/in
Abrasion Resistance Taber, CS-17 Wheel, 1 Kg Load	D4060	83.5 J/m (per 1000 cycles)	83.5 J/m (per 1000 cycles)

* All data generated using 3D Systems recommended recycle rates

Features

- Durable with good tear resistance
- Vary Shore A hardness without changing material
- Easy-to-process
- Good powder recycle characteristics
- Good surface finish and feature detail



www.3dsystems.com

UK

Tel: +44 1442 282 600
info@3dsystems-europe.com

USA

Tel: +1 803.326.3900
moreinfo@3dsystems.com

**Germany, Scandinavia,
 Eastern Europe, Middle East**
 Tel: +49 6151 357 0
info@3dsystems-europe.com

Asia-Pacific

Melbourne Tel: +61 3 9819 4422
 Sydney Tel: +61 2 9516 5571
3dprinters.asiapac@3dsystems.com

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