DuraForm® Flex

Thermoplastic elastomer material with rubber-like flexibility and functionality.

General Properties

MEASUREMENT	CONDITION	METRIC	U.S.
Density	ASTM 4164	0.44 g/cm3	0.44 g/cm3
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 reccommended 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

3D SYSTEMS

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