

Dexflex E118
DESCRIPTION:

DEXFLEX® E1026 is a thermoplastic olefinic elastomer (TPO) designed for extrusion and thermoformed applications that require thermal stability, excellent low-temperature properties, and good dimensional stability over a broad temperature range. This material can be supplied with or without UV stabilizers.

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Hardness	65	Shore D	ASTM D2240
Specific Gravity	1.03		ASTM D792
Melt Flow Rate	0.50	g/10 min	ASTM D1238, <i>Condition M, 230°C, 2.16 kg load</i>
As Molded Mold Shrinkage	0.8 – 1.0	%	ASTM D955
MECHANICAL			
Flexural Modulus	220,000 (1517)	psi (MPa)	ISO 178
Tensile Strength at Yield	3,050 (21)	psi (MPa)	ISO 527
Elongation at Break	150	%	ISO 527
Tear Strength	954 (167)	lb/in (N/mm)	ISO 34
Gardner Impact @ 23 °C	>320 (36)	in-lb (J)	ASTM D5420
Gardner Impact @ -30 °C	>320 (36)	in-lb (J)	
Multiaxial Impact @ -30 °C Ultimate Energy Failure Mode	248 (28) 100% Ductile	in-lb (J)	ASTM D3763 <i>2.2 m/s</i>
THERMAL			
HDT @ 66 psi	205 (96)	°F (°C)	ISO 75 <i>un-annealed</i>
CLTE	3.2 x 10 ⁻⁵ (5.7 x 10 ⁻⁵)	in/in/°F (mm/mm/°C)	ASTM D696 <i>modified</i>
FLAMMABILITY			
UL 94 Flammability	HB All colors		Underwriters Laboratory Inc.
Burn Rate	24.2	mm/min	FMVSS 302

6/16/08