



DEXFLEX E118

DESCRIPTION:

DEXFLEX® E118 thermoplastic olefinic elastomer (TPO) is designed for extrusion 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.

APPLICATIONS:

Extrusion and thermoforming

PROPERTY	TYPICAL VALUE	UNITS	ASTM METHOD
PHYSICAL			
Hardness	65	Shore D	D-2240
Specific Gravity	1.03		D-792
Melt Flow Rate (230°C, 2.16 kg load)	0.45	g/10 min	D-1238 Procedure A
Shrink	0.008 – 0.010	in/in	D-955
MECHANICAL			
Flexural Modulus	240,000 (1,655)	psi (MPa)	D-790 <i>I.B., TAN, 0.5 in/min</i>
Tensile Strength @ Yield	3,200 (22)	psi (MPa)	D-638 <i>IV, 2 in/min</i>
Elongation @ Break	250	%	D-638
Gardner Impact @ 23°C	>320 (36)	in-lb (J)	D-5420-96
@ -30°C	>320 (36)	in-lb (J)	
Notched Izod Impact @ 23°C	17.3 NB	ft-lb/in	D-256
@ -30°C	10.2 NB	ft-lb/in	D-256
THERMAL			
HDT @ 66 psi	205 (96)	°F (°C)	D-648
CLTE (-30°C to 80°C)	3.16 x 10 ⁻⁵ (5.7 x 10 ⁻⁵)	in/in/°F (mm/mm/°C)	D-696 <i>Modified</i>

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