

DEXPRO E420

DESCRIPTION:

DEXPRO™ E420 thermoplastic olefinic elastomer (TPO) is designed for extrusion applications that require high mechanical stiffness, thermal stability, good low-temperature properties, and good dimensional stability over a broad temperature range. This material can be supplied with or without UV stabilizers.

APPLICATIONS:

Profile Extrusion

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Hardness — instantaneous	71	Shore D	ISO 868
— 5 second dwell	71	Shore D	ISO 868
Specific Gravity	1.06		ISO 1183 <i>Method A</i>
Melt Flow Rate (230°C, 2.16 kg load)	0.67	g/10 min	ISO 1133
Shrink	0.9 - 1.2	%	ISO 294
MECHANICAL			
Flexural Modulus	319,000 (2200)	psi (MPa)	ISO 178 2 mm/min
Tensile Strength @ Yield	3,190 (22)	psi (MPa)	ISO 527-1 & 2 50 mm/min
Elongation @ Break	207	%	ISO 527-1 & 2 50 mm/min
Notched Izod Impact @ 23°C	55 NB	kJ/m ²	ISO 180
@ 0°C	12.8 CB	kJ/m ²	
THERMAL			
HDT @ 66 psi (0.45 MPa)	217 (103)	°F (°C)	ISO 75
CLTE (-30°C to 80°C)	2.9 x 10 ⁻⁵ (5.3 x 10 ⁻⁵)	in/in/°F mm/mm/°C	ISO 11359