

STRUCTURAL PROPERTIES OF EJ-200 PLASTIC SCINTILLATOR

(Characteristics of Eljen PVT Based Scintillator Material)

PROPERTY	UNITS	TEST PROCEDURE	THICKNESS	
			50 mm	150 mm
Yield Strength	MPa	ASTM D638	30.8	28.3
Breaking Strength	MPa	ASTM D638	30.8	28.3
Tensile Modulus	MPa	ASTM D638	2700	3010
Flexural Strength	MPa	ASTM D790	45.6	40.5
Flexural Modulus	MPa	ASTM D790	2920	2700
Compressive Strength	MPa	ASTM D695	38.1	40.5
Compressive Modulus	MPa	ASTM D695	1380	2700
Shore "D" Hardness		ASTM D2240	84	84

1 MPa (megapascal) = 145 psi = 10^6 N/m²

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