

ATEVA® 1231 - EVA

Description

This resin is commonly used for high quality microcellular crosslinked foam applications.
 This product is not intended for use in medical or dental implants.

Physical properties	Value	Unit	Test Standard
Density	934	kg/m ³	Internal
Melt flow index, MFI	3	g/10min	ASTM D1238
Temperature	190	°C	ASTM D1238
Load	2.16	kg	ASTM D1238
Vinyl Acetate	12	%	Internal
Gloss, 45°	38	-	ASTM D2457
Haze	13	%	ASTM D1003

Mechanical properties	Value	Unit	Test Standard
Flexural modulus, 23°C	82	MPa	ASTM D790
Tensile stress at yield MD, 500 mm/min	7	MPa	ASTM D882
Tensile stress at yield TD, 500 mm/min	6	MPa	ASTM D882
Tensile stress at break MD, 500 mm/min	21	MPa	ASTM D882
Tensile stress at break TD, 500 mm/min	20	MPa	ASTM D882
Tensile strain at break MD, 500 mm/min	460	%	ASTM D882
Tensile strain at break TD, 500 mm/min	560	%	ASTM D882
Tensile stress at break, 50 mm/min	16	MPa	ASTM D638
Tensile strain at break, 50 mm/min	730	%	ASTM D638
Shore A hardness	95	-	ASTM D2240
Shore D hardness	42	-	ASTM D2240

Thermal properties	Value	Unit	Test Standard
Melting point	97	°C	ASTM D3418
Brittleness temperature	<-85	°C	ASTM D746
Vicat softening temperature	75	°C	ASTM D1525

