

DuPont Elvaloy 3427 AC Ethylene and 27% Butyl Acrylate Copolymer

Polymer, Film, Thermoplastic, Ethylene Butyl Acrylate

DuPont Packaging and Industrial Polymers

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Elvaloy 3427 AC can be used for coextrusion and compounding. It can also be used in extrusion coating. Elvaloy 3427 AC is very soft and flexible, and has good adhesion to various polymers. It combines high melting point and good sealing properties. Elvaloy 3427 AC is easily processed on standard equipment used for low density polyethylene. Information provided by DuPont.

Property	Units	Value	Value	Reference
Density	g/cc	0.926	0.0335 lb/in ³	ASTM D792 - ISO 1183
Flow Rate	g/10 min @ Load 2.16 kg, Temperature 190 °C	4.0	4.0 g/10 min @ Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133
Impact Strength	kJ/m ² (ft-lb/in)	81	81	ASTM D2240 - ISO 868
Impact Strength	kJ/m ² (ft-lb/in)	23	23	ASTM D2240 - ISO 868
Tensile Strength	MPa	9.00	1310 psi	500 mm/min; ASTM D638 - ISO 527-2
Elongation at Break	%	900	900 %	500 mm/min; ASTM D638 - ISO 527-2
Modulus	GPa	0.0250	3.63 ksi	1 mm/min; ASTM D638 - ISO 527-2
Heat Deflection Temperature	°C	94.0	201 °F	By DSC; ASTM D3418 - ISO 3146
Heat Deflection Temperature	°C	45.0	113 °F	A₅₀ (10N); ASTM D1525 - ISO 306
Processing Temperature	°C	150	302 °F	Extrusion lamination and extrusion coating
Processing Temperature	°C	150	302 °F	Cast film
Processing Temperature	°C	150	302 °F	Blown film
Processing Temperature	°C	160	320 °F	Blown film
Processing Temperature	°C	210	410 °F	Cast film
Processing Temperature	°C	220	428 °F	Extrusion lamination
Processing Temperature	°C	170	338 °F	Blown film
Processing Temperature	°C	250	482 °F	Cast film
Processing Temperature	°C	290	554 °F	Extrusion lamination
Adapter Temperature	°C	180	356 °F	Blown film
Adapter Temperature	°C	250	482 °F	Cast Film
Adapter Temperature	°C	290	554 °F	Extrusion lamination
Processing Temperature	°C	180	356 °F	Blown film
Processing Temperature	°C	250	482 °F	Cast film
Processing Temperature	°C	290	554 °F	Extrusion lamination
BA-Content	wt. %	27		DuPont Method