

EcoPaXX® Q170E

PA410

Film Extrusion, Monofilament Grade, Medium Viscosity, Extrusion

Print Date: 2019-04-17

Properties	Typical Data	Unit	Test Method
Mechanical properties	dry / cond		
Tensile modulus	3000 / -	MPa	ISO 527-1/-2
Stress at break	80 / -	MPa	ISO 527-1/-2
Strain at break	20 / -	%	ISO 527-1/-2
Yield strain	4.5 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5.4 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3.6 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	250 / *	°C	ISO 11357-1/-3
Oxygen index	24 / *	%	ISO 4589-1/-2
Other properties	dry / cond		
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m ³	ISO 1183
Biobased content	70	% (Bio C/Total C)	ASTM D6866-12 Method B
Material specific properties	dry / cond		
Viscosity number	170 / *	cm ³ /g	ISO 307, 1157, 1628

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Viscosity-shear rate

