

EcoPaXX® Q150E

Polyamide 410
DSM Engineering Plastics

Message:

EcoPaXX® Q150E is a Polyamide 410 (Nylon 410) material. It is available in Asia Pacific, Europe, or North America for extrusion or film extrusion. Important attributes of EcoPaXX® Q150E are:
Eco-Friendly/Green
Medium Viscosity
Typical application of EcoPaXX® Q150E: Film

General Information			
Features	Medium-low Viscosity		
	Renewable Resource Content		
Uses	Film		
Processing Method	Extrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.8	%	
Equilibrium, 23°C, 50% RH	1.9	%	
Viscosity Number	150	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Break)	75.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.5	%	
Break	10	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	
23°C	5.2	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	250	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Biobased Content - Carbon	70	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	

Drying Time	4.0 to 8.0	hr
Rear Temperature	250 to 270	°C
Middle Temperature	260 to 280	°C
Front Temperature	270 to 290	°C
Nozzle Temperature	270 to 300	°C
Processing (Melt) Temp	270 to 300	°C
Mold Temperature	60.0 to 100	°C
Injection Rate	Moderate-Fast	
Back Pressure	3.00 to 10.0	MPa
Screw Compression Ratio	2.5:1.0	
NOTE		

1. 10°C/min

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Recommended distributors for this material

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