

EcoPaXX® Q170E-H

Polyamide 410

DSM Engineering Plastics

Message:

EcoPaXX® Q170E-H is a Polyamide 410 (Nylon 410) material. This product is available in North America, Europe or Asia Pacific. The processing method is extrusion.

EcoPaXX® The main features of the Q170E-H are:

environmental protection/green

heat stabilizer

Medium viscosity

General Information			
Additive	heat stabilizer		
Features	Updatable resources		
	Thermal Stability		
	Medium viscosity		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	5.8	%	ISO 62
Equilibrium, 23°C, 50% RH	1.9	%	ISO 62
Viscosity Number	170	cm ³ /g	ISO 307
Biomass Content-Bio C/Total C ¹	70	%	ASTM D6866
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.6	%	ISO 527-2
Fracture	20	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
23°C	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	175	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A

Melting Temperature ²	250	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	4.0 - 8.0	hr	
Rear Temperature	250 - 270	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	270 - 290	°C	
Nozzle Temperature	270 - 300	°C	
Processing (Melt) Temp	270 - 300	°C	
Mold Temperature	60 - 100	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 - 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	Method B		
2.	10°C/min		

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