

EcoPaXX® Q170E

Polyamide 410
DSM Engineering Plastics

Message:

EcoPaXX® Q170E 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® Q170E are:
Eco-Friendly/Green
Medium Viscosity
Typical applications include:
Fabrics/Fibers
Film

General Information			
Features	Medium Viscosity		
	Renewable Resource Content		
Uses	Film		
	Monofilaments		
Processing Method	Extrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.8	%	
Equilibrium, 23°C, 50% RH	1.9	%	
Viscosity Number	170	cm³/g	ISO 307
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	4.5	%	
Break	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.6	kJ/m²	
23°C	5.4	kJ/m²	
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT