

EcoPaXX® Q-HG6

Polyamide 410
DSM Engineering Plastics

Message:

EcoPaXX® Q-HG6 is a Polyamide 410 (Nylon 410) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Important attributes of EcoPaXX® Q-HG6 are:
Eco-Friendly/Green
Heat Stabilizer

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
	Renewable Resource Content			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	7000	MPa	ISO 527-2
Tensile Stress (Break)	170	115	MPa	ISO 527-2
Tensile Strain (Break)	4.0	5.8	%	ISO 527-2
Flexural Modulus	8500	6300	MPa	ISO 178
Flexural Stress	260	185	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	
23°C	11	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m ²	
23°C	80	80	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	243	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A

Melting Temperature ¹	250	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.2E-5	--	cm/cm/°C	
Transverse	6.6E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	IEC 60093
Additional Information	Dry	Conditioned	Unit	Test Method
Biobased Content - Carbon	70	--	%	ASTM D6866
Injection	Dry	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	275 to 310		°C	
Mold Temperature	80.0 to 140		°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

