

EcoPaXX® Q-PG6

Polyamide 410
DSM Engineering Plastics

Message:

EcoPaXX® Q-PG6 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-PG6 are:
Eco-Friendly/Green
Impact Modified

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Impact Modifier			
Features	Impact Modified			
	Renewable Resource Content			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.67	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	ISO 62
Calculated Bio-based Carbon Content	66	--	%	ASTM D6866
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8000	6000	MPa	ISO 527-2
Tensile Stress (Break)	150	110	MPa	ISO 527-2
Nominal Tensile Strain at Break	4.5	5.8	%	ISO 527-2
Flexural Modulus	7500	5800	MPa	ISO 178
Flexural Stress	220	160	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	--	kJ/m ²	
23°C	20	25	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	85	90	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	240	--	°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	5.5E-5	--	cm/cm/°C	
Transverse	6.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength	40	38	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
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

