EcoPaXX® Q-KG6

Polyamide 410

DSM Engineering Plastics

Message:

EcoPaXX® Q-KG6 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-KG6 are:
Eco-Friendly/Green
Heat Stabilizer
Typical application of EcoPaXX® Q-KG6: Electrical/Electronic Applications

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized Renewable Resource Content			
Uses	Electrical/Electronic Applications			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.34	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.60	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62
Calculated Bio-based Carbon Content	70	--	%	ASTM D6866
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	9500	7000	MPa	ISO 527-2
Tensile Stress (Break)	170	115	MPa	ISO 527-2
Nominal Tensile Strain at 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/m²	
23°C	11	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m²	
23°C	80	80	kJ/m²	
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	--	1.5E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	2.0E+14	ohms·cm	IEC 60093
Electric Strength	40	35	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			

Recommended distributors for this material

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