EcoPaXX® Q-KGS6

Polyamide 410

DSM Engineering Plastics

Message:

EcoPaXX® Q-KGS6 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-KGS6 are:
Flame Rated
Flame Retardant
Eco-Friendly/Green
Halogen Free

General Information	
UL YellowCard	E47960-100951115
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Flame Retardant
Features	Flame Retardant Halogen Free Renewable Resource Content

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	10000	7700	MPa	ISO 527-2
Tensile Stress (Break)	135	90.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	3.8	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	7.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	45	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	--	°C	ISO 75-2/A
Melting Temperature [1]	250	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	4.0E-5	--	cm/cm/°C	
Transverse	6.6E-5	--	cm/cm/°C	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	6.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	40	30	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
1.50 mm	V-0	--		
Glow Wire Flammability Index (0.800 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	775	--	°C	IEC 60695-2-13
Additional Information	**Dry**	**Conditioned**	**Unit**	**Test Method**
Biobased Content - Carbon	60	--	%	ASTM D6866
Injection	**Dry**	**Unit**		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	250 to 260		°C	
Middle Temperature	255 to 265		°C	
Front Temperature	260 to 275		°C	
Nozzle Temperature	260 to 285		°C	
Processing (Melt) Temp	265 to 295		°C	
Mold Temperature	70.0 to 90.0		°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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