

EcoPaXX® Q-X07207

Polyamide 410
DSM Engineering Plastics

Message:

EcoPaXX® Q-X07207 is a Polyamide 410 (Nylon 410) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of EcoPaXX® Q-X07207 are:
Eco-Friendly/Green
Impact Modified

General Information				
Additive	Impact Modifier			
Features	Impact Modified			
	Renewable Resource Content			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.8	--	%	
Flow	2.8	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Calculated Bio-based Carbon Content	56	--	%	ASTM D6866
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	940	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	35.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	30	> 50	%	ISO 527-2
Flexural Modulus	1750	950	MPa	ISO 178
Flexural Stress	70.0	40.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	--	kJ/m ²	
23°C	65	75	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Melting Temperature ¹	250	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-4	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	5.0E+14	ohms·cm	IEC 60093
Electric Strength	35	33	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	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			

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