

EcoPaXX® Q150-D

Polyamide 410
DSM Engineering Plastics

Message:

EcoPaXX® Q150-D is a Polyamide 410 (Nylon 410) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of EcoPaXX® Q150-D are:
Eco-Friendly/Green
Medium Viscosity
Typical application of EcoPaXX® Q150-D: Household Applications

General Information				
Features		Medium-low Viscosity Renewable Resource Content		
Uses		General Purpose Household Goods Wheels		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1700	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	16	%	ISO 527-2
Nominal Tensile Strain at Break	16	> 50	%	ISO 527-2
Flexural Modulus	2900	1450	MPa	ISO 178
Flexural Stress	115	55.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	5.0	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	175	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	--	°C	ISO 75-2/A
Melting Temperature ¹	250	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Flammability Index (0.800 mm)	825	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	850	--	°C	IEC 60695-2-13
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	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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Recommended distributors for this material

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