EcoPaXX®

EcoPaXX® Q150-D

PA410

Low/Medium Viscosity

Print Date: 2019-06-05

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	1.2 / *	%	ISO 294-4
Molding shrinkage (normal)	1.3 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	3100 / 1700	MPa	ISO 527-1/-2
Nominal strain at break	16 / >50	%	ISO 527-1/-2
Yield stress	85 / 60	MPa	ISO 527-1/-2
Yield strain	5 / 16	%	ISO 527-1/-2
Tensile modulus (120°C)	750 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	540	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 13	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / -	kJ/m²	ISO 179/1eA
Flexural modulus	2900 / 1450	MPa	ISO 178
Flexural strength	115 / 55	MPa	ISO 178
Thermal properties	dry / cond		
Melting temperature (10°C/min)	250 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	77 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	175 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.7 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2

Property Data (Provisional)

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Glow Wire Flammability Index GWFI	825 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.8 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	850 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.8 / -	mm	IEC 60695-2-13
Other properties	dry / cond		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m³	ISO 1183
Biobased content	70	% (Bio C/Total C)	ASTM D6866-12 Method B
Material specific properties	dry / cond		
Viscosity number	150 / *	cm³/g	ISO 307, 1157, 1628