Quadrant EPP ERTALON® 66 GF30

Polyamide 66

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTALON® 66 GF30 is a Polyamide 66 (Nylon 66) product filled with glass fiber. It is available in Europe.
Characteristics include:
Flame Rated
Creep Resistant
Good Dimensional Stability
Good Stiffness
Heat Resistant

General Information	
Filler / Reinforcement	Glass Fiber
Additive	Heat Stabilizer
Features	Good Creep Resistance Good Dimensional Stability Good Stiffness Good Strength Good Wear Resistance Heat Stabilized High Heat Resistance
Appearance	Black
Forms	Disc Preformed Parts Rod

Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr, 3.00 mm	0.39	--	%	
Saturation, 23°C	5.5	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm [1]	0.74	--	%	
23°C, 3.00 mm [2]	56.0	--	mg	
23°C, 3.00 mm [3]	30.0	--	mg	
Service Temperature - Minimum	-20	--	°C	

Hardness	Dry	Conditioned	Unit	Test Method

Rockwell Hardness (M-Scale, 10.0 mm)	76	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	165	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	5900	3200	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	100	75.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	5.0	12	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	26.0	18.0	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	90.0	--	MPa	
2% Strain	55.0	--	MPa	
1% Strain	28.0	--	MPa	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	--	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength	> 50	--	kJ/m^2	ISO 179/1eU
Notched Izod Impact Strength	6.0	11	kJ/m^2	ISO 180/2A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- [4]	110	--	°C	
-- [5]	120	--	°C	
-- [6]	240	--	°C	
Melting Temperature (DSC)	255	--	°C	
CLTE - Flow				
23 to 60°C	5.0E-5	--	cm/cm/°C	
23 to 100°C	6.0E-5	--	cm/cm/°C	
Thermal Conductivity (23°C)	0.30	--	W/m/K	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+13	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	> 1.0E+13	ohms·cm	IEC 60093
Electric Strength (1.00 mm, in Oil)	30	20	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.90	6.90		
1 MHz	3.60	3.90		
Dissipation Factor				IEC 60250
100 Hz	0.012	0.19		

1 MHz	0.014	0.040		
Comparative Tracking Index	475	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		

NOTE	
1.	96 hrs
2.	Weight, 96 hrs
3.	Weight, 24 hrs
4.	20000 hrs
5.	5000 hrs
6.	Short periods

Recommended distributors for this material

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