Miramid® TM30CW

Polyamide 66/6 Copolymer

BASF Leuna GmbH

Message:

Injection moulding grade, mineral-reinforced, heat stabilised for under the bonnet covers, fuel lids

General Information	
Filler / Reinforcement	Mineral,30% Filler by Weight
Additive	Heat Stabilizer
Features	Crystalline Fuel Resistant Good Dimensional Stability Good Flow Good Stiffness Good Surface Finish Grease Resistant Heat Stabilized Oil Resistant Solvent Resistant
Uses	Automotive Applications Caps Closures Engineering Parts Housings
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding
Resin ID (ISO 1043)	(PA66+PA6)-M30

Physical	Dry	Conditioned	Unit	Test Method
Density				
--	1.38	--	g/cm³	ISO 1183
--	1380	--	kg/m³	ISO 1183 [1]
Water Absorption				
Saturation, 23°C	6.5 to 7.5	--	%	ISO 62
Saturation	7.0	--	%	ISO 62 [2]
Equilibrium, 23°C, 50% RH	2.2	--	%	ISO 62
Equilibrium	2.2	--	%	ISO 62 [3]

Viscosity Number				
96% H2SO4 (Sulphuric Acid)	140	--	cm^3/g	ISO 307
--	140	--	cm^3/g	ISO 307, 1157, 1628 [4]
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	180	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus				
23°C	5200	1900	MPa	ISO 527-2
--	5200	1900	MPa	ISO 527-2 [5]
Tensile Stress				
Break, 23°C	8.00	40.0	MPa	ISO 527-2
Break	80.0	40.0	MPa	ISO 527-2 [6]
Tensile Strain				
Break, 23°C	3.0	30	%	ISO 527-2
Break	3.0	30	%	ISO 527-2 [7]
Flexural Modulus (23°C)	4800	1300	MPa	ISO 178
Flexural Stress				ISO 178
--	--	35.0	MPa	
23°C	130	--	MPa	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				
-30°C	3.0	--	kJ/m^2	ISO 179/1eA
23°C	3.5	5.0	kJ/m^2	ISO 179/1eA
-30°C	3.00	--	kJ/m^2	ISO 179/1eA [8]
23°C	3.50	5.00	kJ/m^2	ISO 179/1eA [9]
Charpy Unnotched Impact Strength				
-30°C	50	--	kJ/m^2	ISO 179/1eU
23°C	60 kJ/m^2	No Break		ISO 179/1eU
-30°C	50.0	--	kJ/m^2	ISO 179/1eU [10]
23°C	60.0 kJ/m^2	No Break		ISO 179/1eU [11]
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Melting Temperature	260	--	°C	ISO 11357-3, ISO 3146
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.50 mm)	HB	--		UL 94
Burning Behav. at thickness h (1.50 mm)	HB	--		ISO 1210 [12]
Glow Wire Flammability Index (1.00 mm)	650	--	°C	IEC 60695-2-12
Additional Information	**Dry**	**Conditioned**		**Test Method**

Automotive Materials (> 1.00 mm)	+	--		FMVSS 302
Injection	Dry	Unit		
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Extrusion	Dry	Unit		
Melt Temperature	280 to 300		°C	
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

Recommended distributors for this material

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