Miramid® SX30CW

Polyamide 66

BASF Leuna GmbH

Message:

Injection moulding grade, mineral-reinforced, heat stabilised for technical parts such as engine covers.

General Information				
Filler / Reinforcement	Mineral,30% Filler by Weight			
Uses	Automotive Under the Hood Engineering Parts Housings			
Appearance	Black			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.38	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.0 to 6.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Viscosity Number (96% H2SO4 (Sulphuric Acid))	140	--	cm³/g	ISO 307
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	205	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	6500	2300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	95.0	50.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	30	%	ISO 527-2
Flexural Stress (23°C)	160	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m²	
23°C	5.0	7.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m²	
23°C	80 kJ/m²	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	120	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.50	--		IEC 60250
Dissipation Factor (1 MHz)	0.015	--		IEC 60250
Comparative Tracking Index (Solution A)	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.50 mm)	HB	--		UL 94
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	

Recommended distributors for this material

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