

Miramid® TE30CW

Polyamide 66/6 Copolymer

BASF Leuna GmbH

Message:

Injection moulding grade, glass fibre-reinforced, heat stabilized, technical parts for use under the bonnet

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Crystalline		
	Fuel Resistant		
	Good Flow		
	Good Stiffness		
	Grease Resistant		
	Oil Resistant		
	Solvent Resistant		
Uses	Automotive Applications		
	Automotive Exterior Trim		
	Engineering Parts		
	Housings		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	(PA66+PA6)-GF30		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.36	g/cm ³	ISO 1183
--	1360	kg/m ³	ISO 1183 ¹
Viscosity Number			
96% H2SO4 (Sulphuric Acid)	130	cm ³ /g	ISO 307
--	130	cm ³ /g	ISO 307, 1157, 1628 ²
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	220	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	9000	MPa	ISO 527-2
--	9000	MPa	ISO 527-2 ³
Tensile Stress			
Break, 23°C	175	MPa	ISO 527-2

Break	175	MPa	ISO 527-2 ⁴
Tensile Strain			
Break, 23°C	3.0	%	ISO 527-2
Break	3.0	%	ISO 527-2 ⁵
Flexural Stress (23°C)	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
23°C	12	kJ/m ²	ISO 179/1eA
23°C	12.0	kJ/m ²	ISO 179/1eA ⁶
Charpy Unnotched Impact Strength			
23°C	70	kJ/m ²	ISO 179/1eU
23°C	70.0	kJ/m ²	ISO 179/1eU ⁷
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	260	°C	ISO 11357-3
Flammability	Nominal Value	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 ⁸
Glow Wire Flammability Index (1.00 mm)	650	°C	IEC 60695-2-12
Additional Information	Nominal Value		Test Method
Automotive Materials (> 1.00 mm)	+		FMVSS 302
Injection	Nominal Value	Unit	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	80.0 to 100	°C	
Extrusion	Nominal Value	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.		
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4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
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7.

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8.

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