

Miramid® TP10SW

Polyamide 66/6 Copolymer

BASF Leuna GmbH

Message:

Miramid® TP10SW is a Polyamide 66/6 Copolymer (Nylon 66/6) material. It is available in Europe for injection molding.

Important attributes of Miramid® TP10SW are:

Flame Rated

Chemical Resistant

Good Aesthetics

Good Mold Release

Impact Modified

Typical applications include:

Automotive

Electrical/Electronic Applications

Engineering/Industrial Parts

Wire & Cable

General Information				
Additive		Impact Modifier		
Features	Fuel Resistant			
	Good Flow			
	Good Impact Resistance			
	Good Mold Release			
	Good Surface Finish			
	Grease Resistant			
	Impact Modified			
	Oil Resistant			
	Solvent Resistant			
Uses	Automotive Applications			
	Cable Jacketing			
	Electrical/Electronic Applications			
	Engineering Parts			
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1110	--	kg/m ³	ISO 1183 ¹
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	120	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2400	--	MPa	ISO 527-2 ²
Tensile Stress (Break)	60.0	--	MPa	ISO 527-2 ³
Tensile Strain (Break)	4.0	--	%	ISO 527-2 ⁴

Flexural Stress ⁵ (3.5% Strain)	70.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁶
-30°C	16.0	--	kJ/m ²	
23°C	20.0	--	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁷
-30°C	No Break	--		
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC)	260	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume resistivity	1.0E+13	1.0E+10	ohms · m	IEC 60093 ⁸
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 ⁹
Glow Wire Flammability Index (1.00 mm)	650	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	70.0 to 80.0		°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.	Typical values for uncoloured product at 23°C and 50% relative humidity			
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.

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