

# Miramid® SEP15C

Polyamide 66

BASF Leuna GmbH

Message:

Miramid® SEP15C is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber. It is available in Europe for injection molding.

Important attributes of Miramid® SEP15C are:

Chemical Resistant

Crystalline

Good Stiffness

Impact Modified

Impact Resistant

Typical applications include:

Automotive

Engineering/Industrial Parts

Sporting Goods

General Information				
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Additive		Impact Modifier		
Features		Crystalline		
		Fuel Resistant		
		Good Flow		
		Good Impact Resistance		
		Good Stiffness		
		Grease Resistant		
		High Rigidity		
		Impact Modified		
		Oil Resistant		
		Solvent Resistant		
Uses		Engineering Parts		
		Sporting Goods		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1200	--	kg/m³	ISO 1183 <sup>1</sup>
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	16.0	--	cm³/10min	ISO 1133
Water Absorption				ISO 62 <sup>2</sup>
Saturation	5.8	--	%	
Equilibrium	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	5000	3500	MPa	ISO 527-2 <sup>3</sup>

Tensile Stress (Break)	110	80.0	MPa	ISO 527-2 <sup>4</sup>
Tensile Strain (Break)	4.0	10	%	ISO 527-2 <sup>5</sup>
Flexural Modulus	4000	2500	MPa	ISO 178
Flexural Stress <sup>6</sup>	175	115	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA <sup>7</sup>
-30°C	10.0	--	kJ/m <sup>2</sup>	
23°C	15.0	20.0	kJ/m <sup>2</sup>	
Charpy impact strength				ISO 179/1eU <sup>8</sup>
-30°C	80.0	--	kJ/m <sup>2</sup>	
23°C	80.0	85.0	kJ/m <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC)	260	--	°C	ISO 3146
Injection	Dry	Unit		
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 100		°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. Typical values for uncoloured product at 23°C

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.

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