

**Grilon TSM-30/4**

PA666-MD30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA 66+PA 6, MHR, 14-050N, MD 30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>4800 / 2100</b>	MPa	ISO 527-1/-2
Stress at break	<b>85 / 50</b>	MPa	ISO 527-1/-2
Strain at break	<b>7 / 35</b>	%	ISO 527-1/-2
Charpy impact strength (-30°C)	<b>40 / 50</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>4 / 5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>3 / 4</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	<b>180 / 135</b>	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>260 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>100 / -</b>	°C	ISO 75-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>90 - 120</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>220</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E11 / 1E10</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E11</b>	Ohm	IEC 60093

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>6 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2 / -</b>	%	Sim. to ISO 62
Density	<b>1330 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>1.4 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>1.4 / -</b>	%	ISO 294-4, 2577

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa