

**Grivory HB5299**

PA\*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Information**

Product designation according to ISO 1874:

PA MXD6/MXDI, FNST, 12-040

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	4000 / -	MPa	ISO 527-1/-2

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	218 / -	°C	ISO 11357-1/-3

Other properties	dry / cond	Unit	Test Standard
Water absorption	5.5 / -	%	Sim. to ISO 62
Humidity absorption	2 / -	%	Sim. to ISO 62
Density	1210 / -	kg/m <sup>3</sup>	ISO 1183

Film Properties	dry / cond	Unit	Test Standard
Maximum strain (parallel)	4.5 / -	%	ISO 527-3
Maximum strain (normal)	3.5 / -	%	ISO 527-3
Elmendorf Tear resistance (parallel)	5 / -	N	ISO 6383-2
Elmendorf Tear resistance (normal)	5 / -	N	ISO 6383-2
Trouser Tear resistance (parallel)	10 / -	N/mm	ISO 6383-1
Trouser Tear resistance (normal)	10 / -	N/mm	ISO 6383-1
Gloss, 60°	150 / -	-	ISO 2813
WVTR at 23°C/85%r.h.	6 / -	g/(m <sup>2</sup> *d)	DIS 15106-1/-2
Oxygen transmission rate at 23°C/0%r.h.	4 / -	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Oxygen transmission rate at 23°C/85%r.h.	4 / -	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Carbon Dioxide transm. rate at 23°C/0%r.h.	15 / -	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Carbon Dioxide transm. rate at 23°C/85%r.h.	15 / -	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Stress at break, parallel	110	MPa	ISO 527-3
Stress at break, normal	100	MPa	ISO 527-3

Rheo/Phys properties	dry / cond	Unit	Test Standard
Melt volume-flow rate	50 / -	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / -	°C	ISO 1133
Load	5 / -	kg	ISO 1133

**Characteristic**
**Processing**

 Extrusion - cast film, Extrusion - blow molding, Blown Film  
 Extrusion, Other Extrusion

**Special Characteristics**

Transparent

**Regional Availability**

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

**Product Attributes**

Barrier Properties, High viscosity, Partially aromatic Polyamide

**Packaging**

 Blow moulded containers, Injectionstretchblowmoulded containers,  
 Non oriented film, Oriented film, Paper coating, Tubes, Medical  
 packaging

**Food Contact**

EU Requirements, FDA