

**Test Standard** 

ISO 2039-1

## **Grivory HT1V-3 FWA nat**

Mechanical properties (TPE)

Ball indentation hardness

PA6T/6I-GF30

## EMS-GRIVORY | a unit of EMS-CHEMIE AG

MPa

	uci		

Product designation according to ISO 1874: PA6T/6I, MH, 12-110, GF30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	11000 / 11000	MPa	ISO 527-1/-2
Stress at break	190 / 170	MPa	ISO 527-1/-2
Strain at break	2/2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / 50	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	50 / 50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7/7	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7/7	kJ/m²	ISO 179/1eA

Dali indentation hardness	200 / 210	IVII a	100 2000-1	
Thermal properties	dry / cond	Unit	Test Standard	
Melting temperature (10°C/min)	325 / -	°C	ISO 11357-1/-3	
Temp. of deflection under load (1.80 MPa)	280 / -	°C	ISO 75-1/-2	
Temp. of deflection under load (8.00 MPa)	140 / -	°C	ISO 75-1/-2	
Coeff. of linear therm. expansion (parallel)	20 / -	E-6/K	ISO 11359-1/-2	
Coeff. of linear therm. expansion (normal)	50 / -	E-6/K	ISO 11359-1/-2	
Burning Behav. at thickness h	HB / -	class	IEC 60695-11-10	
Thickness tested	0.8 / -	mm	IEC 60695-11-10	
Max. usage temperature (long term)	140	°C	ISO 2578	
Max. usage temperature (short term)	270	°C	EMS	

280 / 270

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E11 / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	35 / 35	kV/mm	IEC 60243-1
Comparative tracking index	- / 575	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	3.5 / -	%	Sim. to ISO 62
Humidity absorption	1.8 / -	%	Sim. to ISO 62
Density	1440 / -	kg/m³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.7 / -	%	ISO 294-4, 2577

## Characteristics

Processing	Industry & Consumer goods

Injection Molding Housewares, Medical devices, Sanitary, water and gas supply

Delivery form Food Contact

Granules NSF 51, EU Requirements, FDA

Regional Availability Potable Water Contact

North America, Europe, Asia Pacific, South and Central America, NSF 61, KTW, WRAS, ACS, DVGW W270

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## **Grivory HT1V-3 FWA nat** PA6T/6I-GF30

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Near East/Africa

Product Attributes

Hydrolysis resistant