VESTAMID® L-R7-MHI BK

PA12-I — Evonik Operations GmbH

Product Texts

Medium-viscosity, permanently antistatic PA12 resin with enhanced strength

VESTAMID® L-R7-MHI BK is a medium viscosity, permanently antistatic PA12 resin with enhanced strength, especially at low temperatures. Furthermore it is antistatic and contains a processing aid for a fast and even form filling.

The electrical resistance properties which can be achieved on the moulding depend on the processing conditions.

VESTAMID® L-R7-MHI BK is supplied as cylindrical granules, ready for processing, in moisture-proof bags.The processing temperature during the extrusion process should be within a range of 230°C to 270°C.

Pigmentation may affect values.

Inside the original and undamaged packaging, the product has a shelf life of at least 2 years when stored in dry rooms at temperatures not exceeding 30°C.

For information about processing of VESTAMID®, please follow the general commendations about "Processing of VESTAMID® compounds".

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM
OR VISIT OUR PRODUCT AT WWW.VESTAMID.COM

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**16 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**5 / ***	kg	-
[C] Molding shrinkage, parallel	**1.4 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.4 / ***	%	ISO 294-4, 2577
[C] Density of melt	**920**	kg/m³	-
[C] Thermal conductivity of melt	**0.27**	W/(m K)	-
[C] Spec. heat capacity of melt	**2640**	J/(kg K)	-
[C] Ejection temperature	**180**	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**1480 / 1200**	MPa	ISO 527
[C] Yield stress	**36 / 34**	MPa	ISO 527
[C] Yield strain	**6 / 10**	%	ISO 527
[C] Nominal strain at break	**33 / >50**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**43 / 34**	kJ/m²	ISO 179/1eA
[C] Type of failure	**- / C**	-	-
[C] Charpy notched impact strength, -30°C	**12 / 8**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C / C**	-	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**178 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**50 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**130 / ***	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**140 / ***	°C	ISO 306

[C] Coeff. of linear therm. expansion, parallel	**170 / ***	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-
Yellow Card available	**yes / ***	-	-
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-
Yellow Card available	**yes / ***	-	-

[C]: CAMPUS

Electrical properties	**dry / cond**	**Unit**	**Test Standard**
ISO Data			
[C] Volume resistivity	**4.75E7 / -**	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	**dry / cond**	**Unit**	**Test Standard**
[C] Water absorption	**1.5 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.7 / ***	%	Sim. to ISO 62
[C] Density	**1080 / 1080**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	**Value**	**Unit**	**Test Standard**
ISO Data			
[C] Injection Molding, melt temperature	**250**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294
Injection Molding, pressure at hold	**70**	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Additives
Lubricants, Release agent

Special Characteristics
Increased electrical conductivity, Anti-static, High impact or impact modified, Light stabilized or stable to light, Heat stabilized or stable to heat

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