

Product Texts

High-viscosity, heat-and light stabilized, Impact-modified polyamide 610 compound for extrusion

VESTAMID® Terra HS22X-HI-H2 BK E70392 is a polyamide 610 extrusion compound developed for the manufacturing of tubing systems with higher demands on heat resistance.

The melting point of VESTAMID® Terra HS22X-HI-H2 BK E70392 is being about 40°C higher than PA 11 and 12 compounds and allows higher peak temperatures in use. The compound is especially suitable for the extrusion of tubing systems that are exposed to high burst pressures at high service temperatures, e.g., hydraulic clutch lines.

The process temperature should be within a range of 240-270°C.

VESTAMID® Terra HS22X-HI-H2 BK E70392 is supplied as cylindrical, ready for processing, in moisture-proof bags.

VESTAMID® Terra is a group of new polyamides, the monomers for which are based entirely or partly on renewable raw materials. VESTAMID® Terra HS is the polycondensation product of 1,6-hexamethylene diamine (H) and 1,10-decanedioic acid (sebacic acid-S). Because sebacic acid is derived from castor oil, VESTAMID® Terra HS is a material that is partly based on bio-based and renewable resources.

The use of colorants may affect property values.

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.TERRA.COM

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2000 / -	MPa	ISO 527
^[C] Yield stress	55 / -	MPa	ISO 527
^[C] Yield strain	4 / -	%	ISO 527
^[C] Nominal strain at break	>50 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / -	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	18 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, -30°C	12 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	48 / *	°C	ISO 11357-1/-2
^[C] Vicat softening temperature, B	190 / *	°C	ISO 306

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Density	1060 / -	kg/m ³	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

[C]: CAMPUS

Characteristics**Processing**

Pipe/Tube Extrusion, Profile Extrusion, Other Extrusion

Delivery form

Pellets, Granules, Black

Special Characteristics

High impact or impact modified, Light stabilized or stable to light, Heat stabilized or stable to heat

Certifications

Contains renewable resources

Regional Availability

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