VESTAMID®

Product Information

VESTAMID® DX9325 BK E70352

HEAT-STABILIZED, GLASS FIBER-REINFORCED, PA 612 COMPOUND FOR PLASTIC-EPDM-RUBBER BONDS

VESTAMID® DX9325 BK E70352 is a glass fiber-reinforced, PA 612 molding compound. The material contains about 40% glass fiber, an ageing protective agent and processing aid for a fast and even form filling. VESTAMID® DX9325 BK E70352 is especially suitable for the production of plastic and rubber composites.

Parts of VESTAMID® DX9325 BK E70352 can be co-vulcanized with EPDM-rubbers without using any adhesives or adhesion promoters ("direct-bonding to rubber"). Because of its semi-crystalline morphology VESTAMID® DX9325 BK E70352 provides an excellent chemical resistance, e. g., against greases, oils, fuels and hydraulic fluids.

VESTAMID® DX9325 BK E70352 is supplied as cylindrical pellets ready for processing in moisture-proof bags.

Very important are predrying conditions. The material has to be handle as plasticized PA 612. The drying temperature should be not more than 80°C and the drying time at this temperature not more than 4h.

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.

Key Features

Industrial Sector
Automotive and Mobility, Industry and Engineering

Processing
Injection molding

Delivery form
Pellets, Granules

Resistance to
Heat (thermal stability), UV / light / weathering, Oil / fuels

Electrical
Insulating

Conformity
Automotive

Additives
Glass fibers, Release agent

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	**10300 / -**	MPa	ISO 527
Tensile strength	**160 / -**	MPa	ISO 527
Stress at break	**160 / -**	MPa	ISO 527
Strain at break, B	**4.4 / -**	%	ISO 527
Charpy impact strength, +23°C	**100 / -**	kJ/m²	ISO 179/1eU
Type of failure	**C / -**	-	-
Charpy impact strength, -30°C	**104 / -**	kJ/m²	ISO 179/1eU
Type of failure	**C / -**	-	-
Charpy notched impact strength, +23°C	**18 / -**	kJ/m²	ISO 179/1eA
Type of failure	**C / -**	-	-
Charpy notched impact strength, -30°C	**16 / -**	kJ/m²	ISO 179/1eA
Type of failure	**C / -**	-	-
Flexural modulus, 23°C	**10700 / -**	MPa	ISO 178
Flexural stress at conv. deflection, 23°C	**255 / -**	MPa	ISO 178
Flexural strength, 23°C	**265 / -**	MPa	ISO 178
Flexural strain at flexural strength, 23°C	**4 / -**	%	ISO 178
Flexural stress at break, 23°C	**265 / -**	MPa	ISO 178
Flexural strain at break, 23°C	**4 / -**	%	ISO 178

Thermal properties	dry / cond	Unit	Test Standard
Temp. of deflection under load A, 1.80 MPa	**200 / ***	°C	ISO 75-1/-2
Temp. of deflection under load B, 0.45 MPa	**215 / ***	°C	ISO 75-1/-2

Physical properties	dry / cond	Unit	Test Standard
Density	**1410 / -**	kg/m³	ISO 1183
Density	**1410**	kg/m³	ASTM D 792

Rheological properties	dry / cond	Unit	Test Standard
Melt volume-flow rate, MVR	N / A / *	cm^3/10min	ISO 1133
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
Mold temperature	80 / *	°C	-
Melt temperature	60 / *	°C	-

Test specimen production	dry	Unit	Test Standard
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Characteristics

Applications
Electrical and Electronical, Encapsulation, General purpose

Processing
K&K process

Special Characteristics
High impact strength, Semi-crystalline, Light-stabilized, High heat resistant

Features
Good adhesion

Color
Black

Additives
Antioxidant agent, Release agent, Heat stabilizer, Processing aids

Chemical Resistance
Solvent resistance, Oil resistance, Fuel resistance