

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

Electrical

Insulating

Processing

Injection molding

Conformity

Automotive

Delivery form

Pellets, Granules

Additives

Glass fibers, Release agent

Resistance to

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

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	1.49E6 / -	psi	ISO 527
Tensile strength	23200 / -	psi	ISO 527
Stress at break	23200 / -	psi	ISO 527
Strain at break, B	4.4 / -	%	ISO 527
Charpy impact strength, +23°C	47.6 / -	ftlb/in ²	ISO 179/1eU
Type of failure	C / -	-	-
Charpy impact strength, -30°C	49.5 / -	ftlb/in ²	ISO 179/1eU
Type of failure	C / -	-	-
Charpy notched impact strength, +23°C	8.56 / -	ftlb/in ²	ISO 179/1eA
Type of failure	C / -	-	-
Charpy notched impact strength, -30°C	7.61 / -	ftlb/in ²	ISO 179/1eA
Type of failure	C / -	-	-
Flexural modulus, 23°C	1.56E6 / -	psi	ISO 178
Flexural stress at conv. deflection, 23°C	37000 / -	psi	ISO 178
Flexural strength, 23°C	38400 / -	psi	ISO 178
Flexural strain at flexural strength, 23°C	4 / -	%	ISO 178
Flexural stress at break, 23°C	38400 / -	psi	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	392 / *	°F	ISO 75-1/-2
Temp. of deflection under load B, 0.45 MPa	419 / *	°F	ISO 75-1/-2

Physical properties	dry / cond	Unit	Test Standard
Density	1.41 / -	g/cm ³	ISO 1183
Density	1.41	g/cm ³	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	176 / *	°F	-
Melt temperature	140 / *	°F	-

Test specimen production	dry	Unit	Test Standard
Injection Molding, melt temperature	500	°F	ISO 294
Injection Molding, mold temperature	176	°F	ISO 294
Injection Molding, injection velocity	7.87	in/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