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.

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

### 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



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| 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 |



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| 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

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**Evonik Operations GmbH**
**Smart Materials**
**High Performance Polymers**
45772 Marl / Germany
Tel: +49 2365 49-9878
evonik-hp@evonik.com

www.plastics-database.com