

VESTENAMER® 8012

Rubber with unique properties

| Property | Test method | | Unit | VESTENAMER 8012 | |
|---------------------------------|-------------------------|--------------------------|--------------------|-------------------------|-----------------|
| | international | national | | | |
| Density | 23°C | ISO 1183 | DIN EN ISO 1183 | g/cm ³ | 0.91 |
| Tensile test | | ISO 527-1 | DIN EN ISO 527-1 | | |
| Stress at yield | | ISO 527-2 | DIN EN ISO 527-2 | MPa | 7.5 |
| Strain at yield | | | | % | 25 |
| Strain at break | | | | % | > 50 |
| CHARPY impact strength | | ISO 179/1eU | DIN EN ISO 179/1eU | | |
| | 23°C | | | kJ/m ² | N ¹⁾ |
| | -20°C | | | kJ/m ² | N ¹⁾ |
| IZOD notched impact strength | | ISO 180/1A | DIN EN ISO 180/1A | | |
| | 23°C | | | kJ/m ² | N ¹⁾ |
| | 0°C | | | kJ/m ² | 22 |
| | -23°C | | | kJ/m ² | 19 |
| Tensile impact strength | | ISO 8256 | DIN EN ISO 8256 | | |
| | 23°C | | | kJ/m ² | 165 |
| | 0°C | | | kJ/m ² | 190 |
| | -20°C | | | kJ/m ² | 240 |
| Melting range | | ISO 11357 | | | |
| DSC | 2 nd heating | | | °C | 54 |
| Crystallinity | | ISO 11357 | | | |
| | 23°C | | | % | approx.30 |
| Glass transition temperature | | ISO 11357 | | | |
| | T _g | | | °C | - 65 |
| Thermal decomposition | TGA | ISO 11357 | | °C | 275 |
| Melt volume-flow rate (MVR) | | ISO 1133 | DIN EN ISO 1133 | | |
| | 190°C/ 2.16kg | | | cm ³ /10 min | 18 |
| | 190°C/ 5kg | | | cm ³ /10 min | 50 |
| | 230°C/ 2.16kg | | | cm ³ /10 min | 28 |
| | 230°C/ 5kg | | | cm ³ /10 min | 78 |
| Mooney viscosity ML (1+4) 100°C | | DIN 53523 | ASTM D 1646 | | < 10 |
| Molecular weight M _w | GPC | following DIN 55672-1 | | | 90,000 |
| Cis/trans ratio of double bonds | IR | SOP 0188 | | % | 20/80 |
| Apparent density | 23°C | ISO 60 | DIN EN ISO 60 | g/l | 560 |