



AWP – ROHSTOFFE

A. WESTENSEE UND PARTNER – ROHSTOFF GMBH

Benzstraße 9 - D-21423 Winsen/Luhe

Tel.: +49 (0) 41 71 / 88 12-0 Fax: +49 (0) 41 71 / 88 12 21 www.awp-rohstoffe.de

TPEE Kopel® High Resilience Grades

| Properties | Method | Units | KP 3340HR | KP 3355HR | KP 3363HR |
|--|-------------------|----------------------|-------------------|--------------------|---------------------|
| Hardness | ISO 868 | Shore D | 40 | 55 | 63 |
| Specific gravity | ISO 1183 | - | 1,13 | 1,18 | 1,22 |
| Mold shrinkage | ASTM D 955 | % | 1,32~1,33 | 1,55~1,63 | 1,61~1,69 |
| Stress at Break | ISO 527 | MPa | 18,3 | 33,4 | 45,0 |
| Strain at Break | ISO 527 | % | 900 | 1500 | 1000 |
| Tensile Modulus | ISO 527 | MPa | 40 | 85 | - |
| Tensile Stress @5% Strain @10% Strain @50% Strain | ISO 527 | MPa | 2,3 3,9 8,5 | 4,3 7,3 12,7 | 8,1 13,2 18,3 |
| Flexural Modulus 23° C (73°F) 100°C (212°F) | ISO 178 | MPa | 103 60 | 222 115 | 263 164 |
| Charpy impact Strength -40°C 23°C 80°C | ISO 179 | kJ/m² | NB NB NB | NB NB NB | - - - |
| Charpy notched impact Strength -40°C 23°C 80°C | ISO 179 | kJ/m² | 33,1 NB NB | NB NB NB | - - - |
| Tear Strength | ISO 34-1 | kN/m | - | - | - |
| Melting Point Onset Peak | ISO 11357-1/-3 | °C | 148 177 | 182 200 | 202 210 |
| Glass transition Temperature | DMA | °C | - | - | - |
| Heat deflection Temperature 0,45 MPa 1,82 MPa | ISO 75 | °C | 52 N.A | 58 39 | - 41 |
| Vicat softening Temperature 10N | ISO 306 | °C | 133 | 174 | - |
| Water absorption, 24 hours @24 hours, Immersion @50% relative humidity | ISO 62 | % | 0,49 0,27 | 0,45 0,17 | 0,23 0,11 |
| Melt Mass-Flow Rate Temperature Load | ISO 1133 | g/10 min °C kg | 13 210 2,16 | 15 220 2,16 | 2 230 2,16 |
| Flammability | UL 94 | | HB | HB | HB |

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Headquarter:
Winsen Luhe

Owner/CEO: Wiebke Westensee
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