

DENKA STYROL (General Purpose Polystyrene)

MD-100-301 / Improving Flow

➤ Suitable for high speed Injection Mold Process

➤ It can be used blended with impact modifier SBC resin for High Transparent packaging articles

| Properties | Methods | Conditions | Units | MD-100-301 | MW-1-301 MW-1-321 | MF-21-301 MF-21-321 | HRM-2S-311 |
|------------------------------|------------|----------------------|-------------------|-----------------------------|------------------------------|------------------------|------------|
| | | | | New Grade Improving Flow | High Strength High Impact | Easy Flow High Heat | High Heat |
| MFR | ISO1133 | 200°C 49N | g /10min. | <u>8.5</u> | 1.8 | 4.5 | 1.8 |
| Vicat Softening Temperature | ISO306 | 50N | °C | 88 | 93 | 99 | 102 |
| Deflection Temp under load | ISO75-1,2 | Flat wise 1.82MPa | °C | 70 | 74 | 78 | 81 |
| Total luminous transmittance | ISO3468-1 | 2mmt | % | 90 | 90 | 90 | 90 |
| Haze | ISO14782 | 2mmt | % | 0.3 | 0.3 | 0.3 | 0.3 |
| Tensile Strength | ISO527-1,2 | 5mm/min | MPa | 45 | 47 | 47 | 50 |
| Elongation at Break | | | % | <3 | <3 | <3 | <3 |
| Charpy impact strength | ISO179 | Notched, 23°C | KJ/m ² | 2.0 | 2.8 | 2.2 | 2.6 |
| Flexural Strength | ISO178 | 2mm/min | MPa | 99 | 102 | 107 | 109 |
| Flexural Modulus | | | MPa | 3300 | 3300 | 3350 | 3400 |
| Rockwell Hardness | ISO2039-2 | 23°C | M scale | 75 | 75 | 75 | 75 |
| Density | ISO1183 | 23°C | Kg/m ³ | 1,040 | 1,040 | 1,040 | 1,040 |

* Values are typical and not guaranteed.