

Radilon® MIXLOY S HSA20T 100 NT

Radici Group High Performance Polymers - Polyamide 6 + ABS

General Information

Product Description

PA6/ABS blend, injection moulding grade. Toughened. Natural colour.

Suitable for parts requiring high impact resistance and improved flexibility. Low moisture absorption.

General

| | | |
|---------------------|--|--|
| Additive | • Impact Modifier | |
| Features | • Good Flexibility • High Impact Resistance | • Impact Modified • Low Moisture Absorption |
| Agency Ratings | • EU 2011/65/EC | |
| RoHS Compliance | • RoHS Compliant | |
| Appearance | • Natural Color | |
| Processing Method | • Injection Molding | |
| Resin ID (ISO 1043) | • (PA6+ABS)-I | |

Properties¹

| Physical | Dry | Conditioned | Unit | Test Method |
|--------------------------------------|----------|-------------|-----------------------|-----------------|
| Density | 1.06 | -- | g/cm ³ | ISO 1183 |
| Water Absorption | | | | ISO 62 |
| Saturation, 73°F, 0.0787 in | 5.8 | -- | % | |
| Water Absorption | | | | ISO 62 |
| Equilibrium, 73°F, 0.0787 in, 50% RH | 1.9 | -- | % | |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 276000 | 131000 | psi | ISO 527-1/1A/1 |
| Tensile Stress (Yield) | 6530 | 4350 | psi | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 3.4 | 20 | % | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break | > 100 | > 100 | % | ISO 527-2/1A/50 |
| Flexural Modulus ² | 261000 | 132000 | psi | ISO 178 |
| Flexural Stress ² | 9430 | 4790 | psi | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength | | | | ISO 179/1eA |
| -22°F | 7.1 | -- | ft·lb/in ² | |
| 73°F | 31 | 51 | ft·lb/in ² | |
| Charpy Unnotched Impact Strength | | | | ISO 179/1eU |
| 73°F | No Break | No Break | | |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Vicat Softening Temperature | 235 | -- | °F | ISO 306/B50 |
| Melting Temperature ³ | 432 | -- | °F | ISO 11357-3 |

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Processing Information

| Injection | Dry | Unit |
|--------------------------------------|------------|------|
| Drying Temperature - Desiccant Dryer | 176 | °F |
| Drying Time - Desiccant Dryer | 2.0 to 4.0 | hr |
| Dew Point - Desiccant Dryer | < -4 | °F |
| Suggested Max Moisture | 0.15 | % |
| Processing (Melt) Temp | 464 to 500 | °F |
| Mold Temperature | 104 to 140 | °F |
| Injection Rate | Moderate | |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min