



P9R6K-054A

Specialty Random Copolymer for Injection Molding

Features: Excellent clarity with mold release. Produced without animal derived components or phthalates.

Applications: Replacement option for PET, polystyrene, and polycarbonate high clarity products

Resin Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate | 35 g/10min | | D1238 |
| Density | 0.90 g/cm ³ | | D1505 |
| Melting Temperature | 145 -152 °C | 293 – 306 °F | D3418 |

Mechanical Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|--------------------|-------------------------|------------------|
| Tensile Yield Strength | 28 MPa | 4060 psi | D 638 |
| Tensile Yield Elongation | 14 % | 14 % | D 638 |
| Flexural Modulus - Tangent | 972 MPa | 141 kpsi | D 790 |
| Flexural Modulus - Secant | 919 MPa | 133 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 78 °C | 172 °F | D 648 |
| Rockwell Hardness | | 97 R | D 785 |
| Notched Izod @ 23°C | 79 J/m | 1.5 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | >36 J | >320 in-lb | D 5420 |
| Haze @ 25mil | 2.8 % | 2.8 % | D 1003 |
| Haze @ 50mil | 5.8 % | 5.8 % | D 1003 |

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

Drug Master File listed

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