

Advanced Polymer Alloys Alcryn® 2165 NC Melt Processable Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

Alcryn 2100 Series melt-processable rubber (MPR) offer a broader range of bonding to rigid substrates while maintaining all the excellent performance features of traditional Alcryn. The 2100 grades bond to polycarbonate, ABS, polycarbonate/ABS alloys, SAN, ASA, copolyester elastomers and TPUs, as well as both flexible and rigid PVC. Applications: Injection-molded and overmolded parts Soft touch handles and grips Automotive interior applications Seals and gaskets for automotive insert molding Noise and vibration deadening Blow-molded parts Tubing and hose Wire and cable jackets Coated fabrics and sheet goods Window and door weatherstripping Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-Alcryn-2165-NC-Melt-Processable-Rubber.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|--------------------------------|
| Specific Gravity | 1.40 g/cc | 1.40 g/cc | ASTM D471; ISO 2781; DIN 53479 |
| Viscosity | 232000 cP | 232000 cP | ASTM D3835 |
| | @Shear Rate 300 1/s, Temperature 190 °C | @Shear Rate 300 1/s, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------|----------------------|--|
| Hardness, Shore A | 66 | 66 | ASTM D2240; ISO 48; DIN 53505 |
| Tensile Strength, Ultimate | 0.662 MPa | 96.0 psi | After 7 days at 257°F (125°C); ASTM D573; ISO 188; DIN 53508 |
| | 11.7 MPa | 1700 psi | ASTM D412; ISO 37; DIN 53504 |
| Elongation at Break | 91 % | 91 % | After 7 days at 257°F (125°C); ASTM D573; ISO 188 |
| | 570 % | 570 % | ASTM D412; ISO 37; DIN 53504 |
| 100% Modulus | 0.000752 GPa | 0.109 ksi | After 7 days at 257°F (125°C); ASTM D573; ISO 188; DIN 53508 |
| | 0.00300 GPa | 0.435 ksi | ASTM D412; ISO 37; DIN 53504 |
| Graves Tear Strength | 38.6 kN/m | 220 pli | Die C; ASTM D624; DIN 53507 |
| | @Temperature 23.9 °C | @Temperature 75.0 °F | |
| Compression Set | 34 % | 34 % | After 22 Hr at 75°F (24°C); ASTM D395; ISO 815; DIN 53517 |
| | 83 % | 83 % | 22 hrs.; ASTM D395; ISO 815; DIN 53517 |
| | @Temperature 100 °C | @Temperature 212 °F | |
| Tensile Set | 13 % | 13 % | ASTM D412 |

| Mechanical Properties | Metric | English | Comments |
|------------------------|--------|---------|----------|
| Processing Properties | Metric | English | Comments |
| Processing Temperature | 177 °C | 350 °F | |

| Descriptive Properties | Value | Comments |
|---|-------|---|
| Fluid Resistance - Volume Change, % (ASTM D471) | -16 | After 7 Days in ASTM Oil No.1 at 212°F (100°C) |
| | 19 | After 7 Days in ASTM Ref. Fuel No. B at 75°F (24°C) |
| | 9 | After 7 Days in IRM 903 Oil No.3 at 212°F (100°C) |

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