

Ineos R01C-01 Polypropylene Random Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Blow Molding Grade , Polypropylene, Impact Modified; Molded/Extruded , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

This is a low flow rate, high clarity random copolymer designed for extrusion, thermoforming and blow molding. Applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from its use. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520. Applications Thermoformed packaging (cups, containers, lidding) Extrusion blow molded containers and bottles Extruded sheet and profiles Benefits Excellent clarity Excellent processability Good impact resistance at room and refrigerator temperatures Information provided by Ineos Olefins & Polymers USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-R01C-01-Polypropylene-Random-Copolymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Melt Flow | 1.9 g/10 min @Load 2.16 kg, Temperature 230 Å°C | 1.9 g/10 min @Load 4.76 lb, Temperature 446 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------------|--|--|
| Hardness, Rockwell R | 84 | 84 | ASTM D785 |
| Tensile Strength, Yield | 27.9 MPa @Temperature 23.0 Å°C | 4040 psi @Temperature 73.4 Å°F | ASTM D638 |
| Elongation at Yield | 13.8 % | 13.8 % | ASTM D638 |
| Flexural Modulus | 0.896 GPa @Temperature 23.0 Å°C | 130 ksi @Temperature 73.4 Å°F | test speed 0.05'/min; ASTM D790 |
| | 1.18 GPa @Temperature 23.0 Å°C | 171 ksi @Temperature 73.4 Å°F | test speed 0.5'/min; ASTM D790 |
| Izod Impact, Notched | 2.99 J/cm @Temperature 4.00 Å°C | 5.60 ft-lb/in @Temperature 39.2 Å°F | 1/8" notched bar, partial failure, (refrigerator temperature); ASTM D256 |
| | 5.13 J/cm @Temperature 23.0 Å°C | 9.60 ft-lb/in @Temperature 73.4 Å°F | 1/8" notched bar, partial failure, (Room temperature); ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 76.1 Å°C | 169 Å°F | ASTM D648 |

| Optical Properties | Metric | English | Comments |
|--------------------|---------------------------------|---------------------------------|--|
| Haze | 14.4 % @Temperature 23.0 Å°C | 14.4 % @Temperature 73.4 Å°F | 50-mil plaque, % Transmittance; ASTM D1003 |
| Gloss | 94.8 % | 94.8 % | 60Å° angle; ASTM D2457 |

| Descriptive Properties | Value | Comments |
|------------------------|---------------|---------------------------------|
| Process | Blow Molding | |
| | Extrusion | |
| | Thermoforming | |
| Region | Mexico | Bamberger Polymers Distribution |
| | US & Canada | Bamberger Polymers Distribution |

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