

BASF Ultramid® 8255 HS PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Ultramid 8255 HS is a heat stabilized, impact modified type 6 nylon graft copolymer developed for both injection molding and extrusion applications. It exhibits varying levels of toughness and flexibility combined with excellent thermal and chemical resistance properties provided by the nylon backbone. It maintains its inherent chemical resistance to greases, oils and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8255-HS-PA6-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-------------|---------------------------|-----------------------|
| Density | 1.08 g/cc | 0.0390 lb/in ³ | ISO 1183 |
| Water Absorption | 1.2 % | 1.2 % | 24 hour; ISO Test |
| | 7.1 % | 7.1 % | ISO 62 |
| Moisture Absorption at Equilibrium | 2.0 % | 2.0 % | 23°C/50% R.H.; ISO 62 |
| Linear Mold Shrinkage | 0.013 cm/cm | 0.013 in/in | ASTM Data; MD |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------|---------------------|-----------------------------------|
| Hardness, Rockwell R | 52 | 52 | ASTM Test |
| Tensile Strength, Yield | 36.0 MPa | 5220 psi | 50mm/min; ISO 527 |
| | 36.0 MPa | 5220 psi | 2 in/min; ASTM Test |
| Elongation at Break | >= 50 % | >= 50 % | 50mm/min, Nominal strain; ISO 527 |
| | >= 100 % | >= 100 % | 2 in/min; ASTM Test |
| Elongation at Yield | 7.0 % | 7.0 % | 50mm/min; ISO 527 |
| | 30 % | 30 % | 2 in/min; ASTM Test |
| Flexural Strength | 28.0 MPa | 4060 psi | ASTM Test |
| | 8.00 MPa | 1160 psi | ASTM Test |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 9.00 MPa | 1310 psi | ASTM Test |
| | @Temperature 93.0 °C | @Temperature 199 °F | |
| | 10.0 MPa | 1450 psi | ASTM Test |
| | @Temperature 65.0 °C | @Temperature 149 °F | |

| Mechanical Properties | 124 MPa Metric | 18000 psi English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Flexural Modulus | 0.700 GPa | 102 ksi | ASTM Test |
| | 0.145 GPa | 21.0 ksi | ASTM Test |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 0.160 GPa | 23.2 ksi | ASTM Test |
| | @Temperature 93.0 °C | @Temperature 199 °F | |
| | 0.195 GPa | 28.3 ksi | ASTM Test |
| | @Temperature 65.0 °C | @Temperature 149 °F | |
| Izod Impact, Notched | 3.21 J/cm | 6.01 ft-lb/in | ASTM Test |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|--|---------|---------|-----------|
| Melting Point | 220 °C | 428 °F | 10 K/min |
| | 220 °C | 428 °F | ASTM Test |
| Deflection Temperature at 1.8 MPa (264 psi) | 48.0 °C | 118 °F | ASTM Test |

| Descriptive Properties | Value | Comments |
|------------------------------|---------------------------------|----------|
| Color | Natural | |
| Commercial Status | Active America | |
| Form | Pellets | |
| Impact Modified | Yes | |
| Primary Processing Technique | Injection Molding | |
| Processing | Injection Molding | |
| Special characteristic | Heat stabilic or stable to heat | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China