

DSM Akulon® F-X9215 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Low/Medium Viscosity

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-F-X9215-PA6.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------------|---------------------------|---------------------------------------|
| Density | 1.13 g/cc | 0.0408 lb/in ³ | dry; ISO 1183 |
| Water Absorption | 9.5 % | 9.5 % | Sim. To ISO 62 |
| Moisture Absorption | 2.50 % | 2.50 % | Sim. To ISO 62 |
| Viscosity Test | 162 cm ³ /g | 162 cm ³ /g | Viscosity Number; ISO 307, 1157, 1628 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|----------------------------|-------------------|
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | dry; ISO 527-1/-2 |
| Elongation at Break | >= 50 % | >= 50 % | dry; ISO 527-1/-2 |
| Elongation at Yield | 8.0 % | 8.0 % | dry; ISO 527-1/-2 |
| Tensile Modulus | 2.00 GPa | 290 ksi | dry; ISO 527-1/-2 |
| Charpy Impact Unnotched | NB | NB | cond; ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | NB | NB | dry; ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.700 J/cm ² | 3.33 ft-lb/in ² | dry; ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---------------------------------|--------------|----------------|--------------------------|
| CTE, linear, Parallel to Flow | 90.0 µm/m-°C | 50.0 µin/in-°F | dry; ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 100 µm/m-°C | 55.6 µin/in-°F | dry; ISO 11359-1/-2 |
| Melting Point | 220 °C | 428 °F | 10°C/min; ISO 11357-1/-3 |

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