

Ineos G36-24-150 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Ineos G36-24-150 is a medium density polyethylene resin designed for geomembrane sheet extrusion. The resin has excellent environmental stress crack resistance (ESCR). Natural resin; some physical properties may be specific to the carbon black filled resin.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-G36-24-150-HDPE.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|---|---|--|
| Density | 0.937 g/cc | 0.0339 lb/in ³ | ASTM D4883 |
| Environmental Stress Crack Resistance | >= 3000 hour | >= 3000 hour | Condition B and C; ASTM D1693 |
| Oxidative Induction Time (OIT) | >= 100 min | >= 100 min | at 200 ^o C, black product - aluminum pan method |
| Melt Flow | 0.27 g/10 min @Load 2.16 kg, Temperature 190 ^o C | 0.27 g/10 min @Load 4.76 lb, Temperature 374 ^o F | ASTM D1238 |
| High Load Melt Index | 22 g/10 min | 22 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|---------------|---------------------------------|
| Hardness, Shore D | 59 | 59 | ASTM D2240 |
| Tensile Strength, Ultimate | 27.5 MPa | 3990 psi | 2 in/min.; ASTM D638 |
| Tensile Strength, Yield | 17.5 MPa | 2540 psi | 2 in/min (50 mm/min); ASTM D638 |
| Elongation at Break | >= 800 % | >= 800 % | 2 in/min (50 mm/min); ASTM D638 |
| Flexural Modulus | 0.575 GPa | 83.4 ksi | Tangent-Method 1; ASTM D790 |
| Izod Impact, Notched | 4.00 J/cm | 7.49 ft-lb/in | Partial break |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------------------|------------------------|-----------|
| Brittleness Temperature | <= -75.0 ^o C | <= -103 ^o F | ASTM D746 |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------|----------|
| Process | Sheet Extrusion | |

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