TRICOLENE® HDI20952

High Density Polyethylene Resin

Tricolene HDI20952 is a high-density polyethylene is an ethylene-hexene copolymer that is tailored for injection molded applications that require:

- Require good flow
- Require good impact strength
- Require good stiffness
- Are durable and recyclable for sustainability

This resin meets these specifications:

- ASTM D4976 – PE 232
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)

Typical injection molded applications for HDI20952 include:

- Pails (one and two -gallon)
- Toys & housewares
- Automotive applications
- Tamper-evident caps for milk bottles
- Small containers for building compounds

TYPICAL CHARACTERISTICS

PROPERTIES	TEST METHOD	TYPICAL VALUE (ENG)	TYPICAL VALUE (SI)
Density	ASTM D1505	---	0.952 g/cm³
Melt Index, 190 °C/2.16 kg	ASTM D1238	---	20.0 g/10 min
Tensile Strength at Yield, 2 in/min, Type IV bar	ASTM D638	3,900 psi	27 MPa
Elongation at Break, 2 in/min, Type IV bar	ASTM D638	300 %	300 %
Flexural Modulus, Tangent, 16:1 span:depth, 0.5 in/min	ASTM D790	175,000 psi	1,200 MPa
ESCR, Condition B (100 % Igepal), F_{50}	ASTM D1693	< 10 h	< 10 h
Durometer Hardness, Type D (Shore D)	ASTM D2240	63	63
Vicat Softening Temperature, Loading 1, Rate A	ASTM D1525	252 °F	122 °C
Brittleness Temperature, Type A, Type I specimen	ASTM D746	< - 103 °F	< - 75 °C

a). The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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