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1. Product Description.

High Density High Flow Polyethylene specially designed for applications requiring excellent wide process windows, good impact strength, good flow combined with fair ESCR and high modulus.

Available: Natural 35 mesh powder.

2. Applications: For Rotational molding of large tanks and other high modulus parts, ductwork, kayaks and parts that requires excellent impact strength and ESCR. Natural Resin, which is used as a base in color compounds complies with:

- ASTM D4976 - PE 233*
- FDA* 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c) Table 2. Single use articles contacting food types I, II, IV-B, VI-A, VI-B, VII-B, and VIII. Repeated use articles contacting all food types defined in 21 CFR 176.170(c) Table 1.
- FMVSS.302 burn test*.
- Long term UV stabilization* - ASTM 2565 (Cycle 1): Greater than UV-16

3. Typical Characteristics:

TEST	METHOD BASED ON	NOMINAL VALUE (English)	NOMINAL VALUE (SI)
MELT INDEX ¹ @190°C/2.16 kg	ASTM D1238	6.0 g/10 min	6.0 g/10 min
DENSITY ¹	ASTM D1505 Reference MA -01 Internal Method	0.945 g/cm ³	0.945 g/cm ³
ESCR ¹ Condition A @ 100 % Igepal, F50 @ 10 % Igepal, F50	ASTM D1693	70 hr 25 hr	70 hr 25 hr
DUROMETER HARDNESS ¹ Type D (Shore D)	ASTM D2240	63	63
TENSILE STRENGTH AT YIELD ^{2,3} @2 in/min (50 mm/min) Type IV bar	ASTM D638	2,900 psi	20MPa
TENSILE ELONGATION AT BREAK ^{2,3} @2 in/min (50 mm/min) Type IV bar	ASTM D638	460 %	460 %
FLEXURAL MODULUS ^{2,3} @ Tangent -16:1 span:depth, 0.5 in/min @ 1% Secant -16:1 span:depth, 0.5 in/min	ASTM D790	132,000 psi 107,000 psi	910 MPa 740 Mpa
LOW TEMPERATURE IMPACT TEST ^{2,3} @ 1/8" (3.2 mm) thickness, -40°F (-40°C) @ 1/4" (6.35 mm) thickness, -40°F (-40°C)	ARM Impact	68 ft/lb 165 ft/lb	92 J 223 J
HEAT DEFLECTION TEMPERATURE ^{2,3} 66 psi (0.45MPa) Method A 264 psi (1.8 MPa) Method A	ASTM D648	147°F 111°F	64 °C 44 °C

Notes:

¹ The physical properties were determined on compression-molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

² Rotational Molded.

³ Properties were measured on rotational molded samples with 1/8" (3.17 mm) average thickness, unless otherwise noted. The average peak internal air temperature during molding was above 400°F.

*Regulatory statements apply only to the natural resin. It is the responsibility of the article producer or food packager to determine that the article is suitable and compliance for its intended use. Any pigment or additive addition, either dry-blending or compounding, may void any base resin compliance.

The technical information of uses and applications recommended are based on the typical test results of each product. Polímeros Mexicanos is not responsible for the use or the results based on this information. All users must run their own test to determine their suitability.