TECHNICAL DATA SHEET
FIN-X-TDS-MD-5040RW-BL

MEDIUM DENSITY POLYETHYLENE RESIN

MD 5040RW-BL

BLUE | Powder

ROTATIONAL MOLDING · HEAT STABILIZED

DENSITY	MELT INDEX	ESCR	IMPACT
0.935-0.942 g/cm³	**3.5-6.0** g/10 min	**> 982** hr	**59** ft·lb
ASTM D792	190°C / 2.16 kg · ASTM D1238	122°F, 10% Igepal, F50 · ASTM D1693	-40°F, 0.125 in, rotational molded · ARM

01 PRODUCT DESCRIPTION

FIN-X MD 5040RW-BL is a blue medium density polyethylene (MDPE) resin supplied in powder form and intended primarily for rotational molding. It is designed for applications requiring excellent processability and aesthetics, low warpage, good impact strength and stress-crack resistance. The resin is heat and UV stabilized for broad processing latitude, good color retention and long service life.

APPLICATIONS

- Intermediate bulk containers
- Toys
- Agricultural and water storage tanks
- Marine parts
- General-purpose custom molding

02 GENERAL

FORM	Powder
COLOR	Blue
PROCESSING METHODS	Rotational molding
STABILIZATION	Heat stabilized | Long-term UV stabilization (UV-8 package)
ADDITIVES	Antiblock: No · Slip: No · Processing Aid: Yes · UV Stabilizer: UV-8

03 TECHNICAL PROPERTIES - ENGLISH VALUES

SECTION	PROPERTY / CONDITION	TEST METHOD	NOMINAL VALUE (ENGLISH)
PHYSICAL	Density	ASTM D792	0.935-0.942 g/cm³
	Melt Index (190°C / 2.16 kg)	ASTM D1238	3.5-6.0 g/10 min
	ESCR, 122°F, 10% Igepal, F50	ASTM D1693	> 982 hr
	ESCR, 122°F, 100% Igepal, F50	ASTM D1693	> 1,000 hr
MECHANICAL	Tensile Strength at Yield	ASTM D638	2,720 psi
	Flexural Modulus, 1% Secant	ASTM D790B	95,000 psi
IMPACT	Impact Strength, -40°F, 0.125 in, rotational molded	ARM	59 ft·lb
	Impact Strength, -40°F, 0.250 in, rotational molded	ARM	188 ft·lb
THERMAL	Deflection Temperature Under Load, 66 psi, unannealed	ASTM D648	125°F
	Deflection Temperature Under Load, 264 psi, unannealed	ASTM D648	95°F
	Melting Temperature (DSC)	Source method	257°F

DATA NOTICE

Typical values are based on the supplied reference data and are not to be construed as minimum or maximum specifications, except for the stated Melt Index and Density ranges. Users must confirm suitability and performance through their own processing and laboratory evaluations.

FIN-X
MEXICO +52 (81) 2000 - 1997
USA +1 (346) 639 - 1793
EMAIL info@finxpolymers.com
WEB www.finxpolymers.com