Marvel™ M3504DXP

Polyethylene

SCG Chemicals Co., Ltd.

Message:

M3504DXP and Marvel M50 are powder and compounded form of Dowlex NG2429 which are linear-low density polyethylene octene copolymer for rotational molding applications. M3504DXP is a natural color available in powder form, which are specifically designed for applications requiring excellent environmental stress crack resistance and impact strength combined with low warpage and good processing. It is fully heat and UV stabilized resulting in a wide processing latitude, good color retention, and long life expectancy. Both of them are recommended for large and thick tanks with a generous radius and curve.

General Information			
Additive	Heat Stabilizer UV Stabilizer		
Features	Food Contact Acceptable Good Color Stability Good Processability Good Stiffness Good Toughness Heat Stabilized High ESCR (Stress Crack Resist.) Low Warpage Octene Comonomer Recyclable Material		
Uses	Containers Tanks		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Appearance	Natural Color		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.935	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (100% Antarox, F50)	> 1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	57		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2

Yield	17.0	MPa	
Break	25.0	MPa	
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus - 1% Secant	640	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
ARM Impact (-20°C)	230	J/cm	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Vicat Softening Temperature	118	°C	ISO 306/A120
Melting Temperature	125	°C	DSC
Peak Crystallization Temperature (DSC)	105	°C	ISO 3146

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China