



Polycin® GR - Polyols

Description

The Polycin® GR series are 100% solids, castor oil based polyols designed for use as reactive resins in polyurethane systems. For the first time, these products will produce a range of mechanical properties never obtained from glyceryl ricinoleate chemistry. Shore hardnesses in the high D scale down to the low A scale can be attained with MDI cures. Using castor oil as its sole base, the GR series are fully natural products from a renewable resource.

Preliminary Technical Information

Properties	GR-340	GR-220	GR-160	GR-110	GR-80	GR-50	GR-35
Molecular Weight	370	650	928	1330	1770	2610	3450
OH #	342	220	164	109	78	52	38
Equivalent Weight	164	255	342	515	716	1085	1457
Functionality	2.9	2.8	2.7	2.6	2.4	2.2	2.0
Viscosity (cP)	900	775	720	1000	1050	1400	2000
Specific Gravity	0.985	0.968	0.959	0.948	0.946	0.943	0.941
Color (Gardner)	3	2+	1+	3+	3-	4	5
Hardness with p-MDI Cure:							
Shore D	70	35	12	10	0	0	0
Shore A	98	80	60	52	35	13	3
Shore OO	100	90	90	88	80	60	40
Tensile Strength (psi)	6,345	2,600	540	165	135	65	38
Elongation (%)	10	100	90	55	65	65	130
Tear Strength (pli)	750	375	50	18	13	11	8

NOTE: The above properties are typical. This should not be considered a specification.

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