



A Step Ahead...

QUAKER COLOR

DIVISION OF McADOO & ALLEN, INC.

201 S. HELLERTOWN AVENUE P.O. BOX 219
QUAKERTOWN, PENNSYLVANIA 18951-0219
(215) 536-3520 FAX (215) 536-6464
www.quakercolor.com

Technical Data Sheet

Product Code: PR-1479

Experimental PUD

DESCRIPTION

PR-1479 is an inherently low gloss, high performance, soft feel aliphatic polyurethane dispersion. PR-1479 could be crosslinked with either carbodiimide or isocyanate to further improve chemical resistance properties.

APPLICATIONS

- Automotive Interior
- Consumer Electronics
- Paper and Cosmetic Packaging
- Wood and plastic toys
- High speed gravure applications

FEATURES

- Low gloss
- Solvent rub resistance in thin film applications
- Soft, velvety feel
- High flexibility
- Excellent Adhesion to Plastics

PROPERTIES

NV %	33-35	60° Gloss	0.6 – 1.2
WPG	8.5 – 9.0	Tensile Strength, psi	3000
pH	7.0 – 9.0	100% Modulus, psi	1300
Viscosity, cPs	10 – 700	Elongation	390%

STORAGE

Store in a cool, dry place, preferably less than 80°F to ensure a useful shelf life of 18 months. Protect from freezing. Mix before use (Mechanical mixing preferred)



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STARTING POINT FORMULATION Carbodiimide Crosslinking

Component 1	Material	Lbs.
PUD	PR-1479	100.00
Deformer	Foamstar A10	0.50
Surfactant	BS-088	3.0
Component 2		
Carbodiimide	Carbodilite SW12G	7.00

Cure Schedule: High temperature (95-100C)/short exposure (sec), or lower temperature (80C) for 30 min

Corona Treatment recommended for low surface energy substrates

Isocyanate Crosslinking

Component 1	Material	Lbs.
PUD	PR-1479	100.00
Defoamer	Foamstar A10	0.50
Surfactant	BYK 347	0.50
<i>For TPO,PP use adhesion promoter</i>		
WB Adhesion Promoter	Auroren AE-301	20.00
Component 2		.25
Isocyanate	EZM 502	6.00
Solvent	PGDA	2.50

Cure Schedule: 30min@80°C, follow by 7 days RT

Quaker Color manufactures all its products under carefully controlled conditions to meet rigid specifications. The values given in this publication are typical values intended as guidelines for the use of the products, they are not specifications. It is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Should you require the actual specifications currently enforced on specific products contact your Quaker Color representative for the appropriate information.



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CHEMICAL RESISTANCE – 30 minute spot test – covered, isocyanate crosslinking, 2 mils DFT

Formula 409	No Effect
Dish Soap	No Effect
Spic-n-Span	No effect
Pledge	No effect
Windex	No effect
Household Ammonia	No effect
Antistatic Cleaner	No effect
Hand Cream	No Effect

SOLVENT RESISTANCE –carbodiimide crosslinking, 2-3 microns DFT, 10DR

IPA	No Effect
MEK	No Effect

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